

UPMOST TECHNOLOGY CORP.

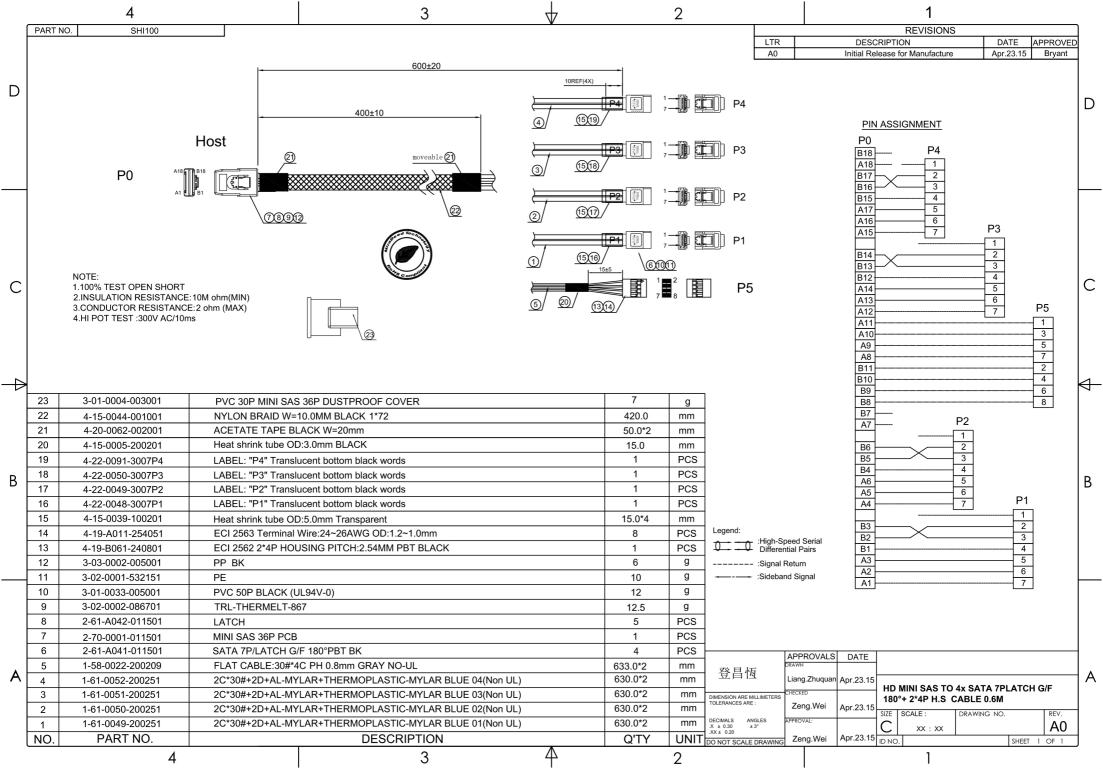
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APPROVAL SHEET

Product :	SHI100		
Part Number :			
Description :	. «h		
Version :			
Date :	11, July, 2017		
Customer :	研華股份有限公司		
Customer approval s	eal :	UPMOST app 有興 家 設 の 份	proval seal : 登昌恆
Approved by		Approved by	
Checked by		Checked by	
Prepared by		Prepared by	

Catalogue

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330-334	NYLON BRAID RoSH Test Report



東莞德宏電線電子有限公司						
	Drai	n Wi	re	Color Code 1.White 2.White		
	1					
Sh	nieldir	ng(2)	Shielding(1)			
1	TEM			DESCRIPTION		
No. Of Co	ore		(2 Cores + 2 Drain+S	Shield+Shield)		
Conductor	Materi	ial	30AWG; Solid Tin	ned Copper		
	Constr	ruction	$1 \text{ Solid} / 0.26\text{T} \pm 0.00$	08 mm		
	Materi	ial	HDPE			
Insulation	Thickr	ness	0.27 mm			
	Diame	eter	$0.80\pm~0.05~mm$			
Drain Wire	Materi	ial	Solid Tinned Copper	r		
	Constr	ruction	30AWG ; 1 Solid / 0	0.26T (2 Pcs)		
Shielding(1)) Materi	ial	Hot melt Aluminum	Mylar Spirally Wrapped		
	Constr	ruction	100% coverage with	25% overlapping		
	Marki	ng	#30 #01;#30 #02;#.	30 #03;#30 #04;#30 #05;#30 #06;#30 #07;#30 #08		
Shielding(2)) Materi	ial	Hot melt Transparent	Mylar Spirally Wrapped		
	Constr	ruction	100% coverage with	25% overlapping		
	Nom. I	Diameter	$1.0 \times 2.32 \pm 0.20 \text{ mm}$			
ELECTI	RICAL	PRO	PERTIES			
Conductor I	Resistance	e	Max. 376 ohms/km	at 20°C		
Insulation R	esistance	;	Min. 10 mega ohms	s-km at 20°C		
Dielectric T	est		500 VAC/1 min ; No Breakdown			
Impedance			100 ± 5 ohms			
Intra pair sk	ew	1	15 ps/m			
DRWN.	chris	SPEC N		Construction:		
CHKD.			H19809DP nple:Sa08183-1	20 AWC = 2 C + 2 D + 1 D A A A + 1 D A		
APPD.			Dec29-2008	30AWG x 2 C +2D+HMAM+ HM		



No. CANEC1505923503

Date: 30 Apr 2015

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HOPERISE CONDUCTOR(DONGGUAN) COMPANY LIMITED

QIAO ZI REGION CHANGPING TOWN, DONGGUAN CITY, GUANGDONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : TINNED COPPER WIRE

CP15-020403 - GZ
Sample Description:silvery plating on metal
Material:Base material Cu
Sample Description:silver color plating
17 Apr 2015
17 Apr 2015 - 23 Apr 2015
Selected test(s) as requested by client.
Please refer to next page(s).
Please refer to next page(s).
Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry

Merry Lv Approved Signatory



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邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC1505923503

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-059235.002	Silvery plated metal

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES. (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis. (5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	\diamond	Negative
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1505923503		Date: 30 Apr 2015		Page 3 of 11
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

(2) Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

◇Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

Elementary Analysis

Test Method : With reference to US EPA method 3050B:1996, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>002</u>
Beryllium (Be)	mg/kg	5	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>002</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND



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<u>Test Item(s)</u>	<u>CAS NO</u>	<u>D. Unit</u>	MDL	<u>002</u>
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	′ mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0) mg/kg	0.1	ND
Pyrene(PYR)	129-00-0) mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9) mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	2 mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	B mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9) mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	2 mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	5 mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	2 mg/kg	0.1	ND
Sum of Acenaphthylene. Acenaphth		mg/kg	-	ND
Phenanthrene, Pyrene, Anthracene,	Fluoranthene			
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category 3		
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact.		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 s (short-term skin contact).		
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG	
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
Naphthalene, mg/kg	< 1	< 2	-	< 10		
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50	

Remark:

The German committee on Product Safety (AfPS) adopted a new PAHs document on August 4, 2014, which is taken into account by the GS certification bodies for the certification process of the GS mark now. The transitional arrangements and deadlines contained therein shall determine the procedure for existing certificates and new certificates; also there are exceptions. The previously valid PAK-document (ZEK 01.4-08, English version) will be repealed after 30th of June.2015.

Perfluorooctane Sulfonates (PFOS)



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Test Method : With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	MDL	<u>002</u>
Perfluorooctane Sulfonates	1763-23-1	µg/m²	1.0	ND
(PFOS) and related Acid,Metal				
Salt and Amide				

Notes :

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:

(1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.

(2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m2 of the coated material.



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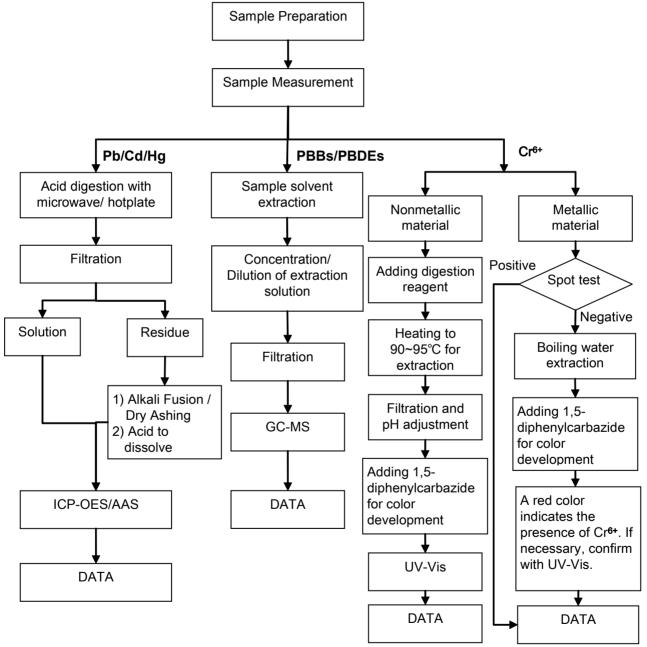
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart
- (Cr6+ and PBBs/PBDEs test method excluded).





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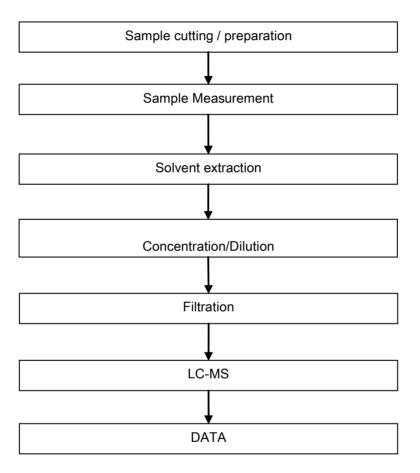
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PFOA / PFOS Testing Flow Chart

1) Name of the person who made testing: Zhihong Wang

2) Name of the person in charge of testing: Cutey Yu





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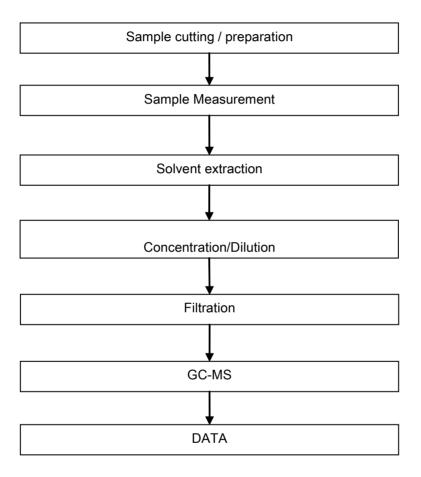
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PAHs Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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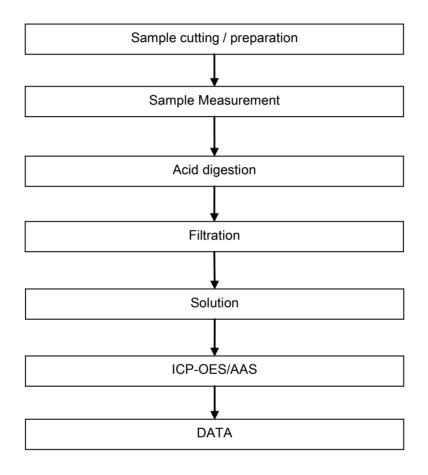
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Elementary Testing Flow Chart

1) Name of the person who made testing: Bruce Xiao

2) Name of the person in charge of testing: Bella Wang





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No. CANEC1505923503

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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測試報告 _{號碼(No.)}:

號碼(No.) : CE/2014/B1499

日期(Date): 2014/11/17

頁數(Page): 1 of 6

Test Report

Troy Chang Manager Tech Signed for and on Dehalf of

Chemical Laboratory - Taipei

SGS TAIWAN LTD.

德紘實業有限公司 AMPRO TECHNOLOGIES INC. 台北市羅斯福路一段78號4樓 4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

以下測試樣品係由申請廠商所提信 behalf of the applicant as):	共及確認 (The following sample(s) was/were submitted and identified by/on
送樣廠商(Sample Submitted By)	: 德紘實業有限公司 (AMPRO TECHNOLOGIES INC.)
樣品名稱(Sample Description)	: HIGH DENSITY POLYETHYLENE RESINS
樣品型號(Style/Item No.)	: LR590005
生產或供應廠商(Manufacturer/Vendor)	: EQUISTAR CHEMICALS, LP.
原產國(Country of Origin)	: U.S.A.
Lot No.	: CL240329B1
收件日期(Sample Receiving Date)	: 2014/11/11
測試期間(Testing Period)	: 2014/11/11 TO 2014/11/17
測試需求(Test Requested) :	依據客户要求, 參考RoHS 2011/65/EU Annex II 指令進行鎬, 鉛, 汞, 六價鉻, 多溴聯苯, 多溴聯苯醚測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
測試方法(Test Method) :	請見下一頁 (Please refer to next pages).
測試結果(Test Results) :	請見下一頁 (Please refer to next pages).
結論(Conclusion) :	根據客户所提供的樣品,其鎬,鉛,汞,六價鉻,多溴聯苯,多溴聯苯醚的測試結果符合 RoHS指令2002/95/EC的更新指令2011/65/EU之要求 (Based on the performed tests on submitted samples, the test result(s) of Cadmium, Lead, Mercury, Cr(VI), PBBs,
TAIWAN STAIWAN	PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.)

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測試報告 ^{號碼(No.)}: CE/2014/B1499 **Test Report**

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德紘實業有限公司 AMPRO TECHNOLOGIES INC. 台北市羅斯福路一段78號4樓 4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

<u>測試結果(Test Results)</u>

测试部位(PART NAME)No.1 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	法規 限值 (Limit)
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
六價貉 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg	*************************************	5	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg	譜儀檢測. / With reference to IEC	5	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg	62321: 2008 and performed by GC/MS.	5	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	-

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Test Report

德紘實業有限公司 AMPRO TECHNOLOGIES INC. 台北市羅斯福路一段78號4樓 4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	法規 限値 (Limit)
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	参考IEC 62321: 2008方法,以氣相層析/質	5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	譜儀檢測. / With reference to IEC	5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	62321: 2008 and performed by GC/MS.	5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	-
入溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	-

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)

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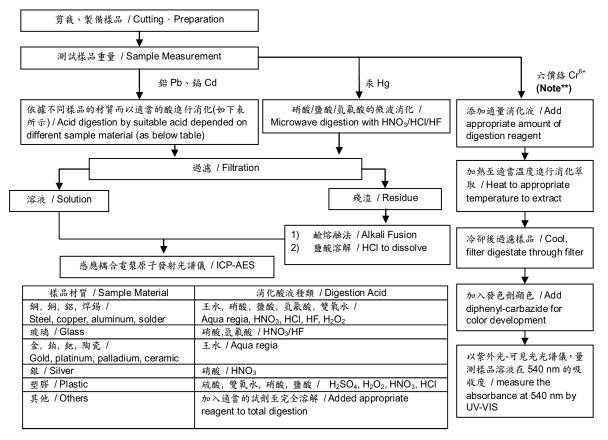
日期(Date) : 2014/11/17

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Test Report

德紘實業有限公司 AMPRO TECHNOLOGIES INC. 台北市羅斯福路一段78號4樓 4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

- 根據以下的流程圖之條件,樣品已完全溶解。(六價錄測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 测试人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note**:(1) 針對非金屬材料加入鹼性消化液,加熱至90~95℃萃取./For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.

(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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Test Report 德紘實業有限公司

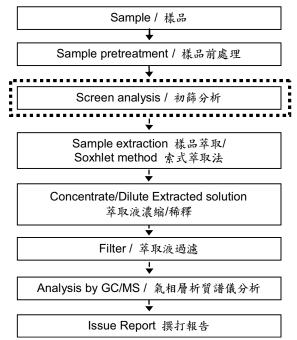
AMPRO TECHNOLOGIES INC. 台北市羅斯福路一段78號4樓 4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

初次測試程序 / First testing process -┢ 選擇性篩檢程序 / Optional screen process •••••••

確認程序 / Confirmation process - · - · ▶



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Test Report

德紘實業有限公司 AMPRO TECHNOLOGIES INC. 台北市羅斯福路一段78號4樓 4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2014/B1499 LR 5900-0 50 OL SL

** 報告結尾 (End of Report) **

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No. CANEC1406722801

Date: 13 May 2014

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SUNVIC TECHNOLOGY CO.LTD

XITOU ADMINISTRATION DISTRICT HOUJIE TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as : Blue Al/Pet

SGS Job No. :	CP14-022625 - SZ
Lot No. :	25140415083
Date of Sample Received :	07 May 2014
Testing Period :	07 May 2014 - 13 May 2014
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Daisy Dai Approved Signatory



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No. CANEC1406722801

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN14-067228.001	Blue/silvery sheet

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES. (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1406722801		Date: 13 May 2014		Page 3 of 10
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	MDL	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes :

 Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

PFOS (Perfluorooctane Sulfonates)

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.



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No. CANEC1406722801

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctane Sulfonates (PFOS) and related	mg/kg	10	ND
Acid,Metal Salt and Amide			

Notes :

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:

(1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.

(2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0.1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m2 of the coated material.

Phthalate

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
	05 00 7	0/(1-1)	0.000	
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate	117-81-7	%(w/w)	0.003	ND
(DEHP)				
	04 00 F	$0(1, \dots, 1, n)$	0.000	
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.



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198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 f (86–20) 82075113 www.sgsgroup.com.cn 中国·广州·经济技术开发区科学城科珠路198号

Member of the SGS Group (SGS SA)

邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC1406722801

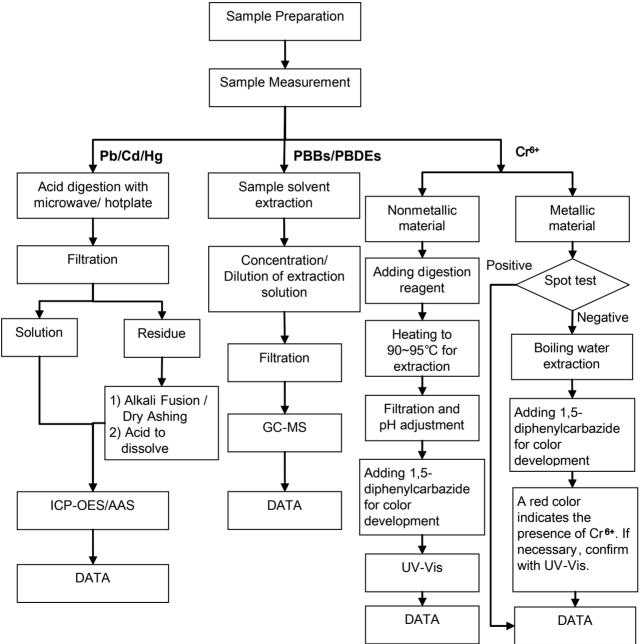
Date: 13 May 2014

Page 5 of 10

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart
- (Cr6+ and PBBs/PBDEs test method excluded).





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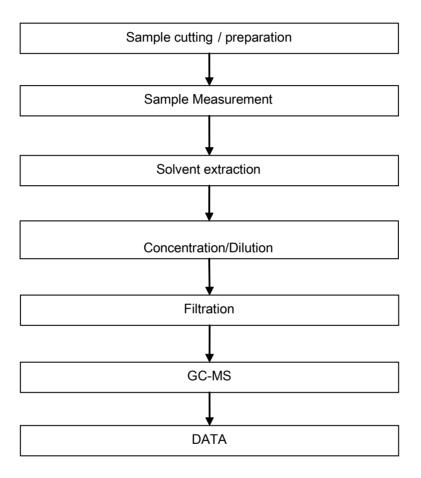
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Date: 13 May 2014

ATTACHMENTS

HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Yolanda Wei





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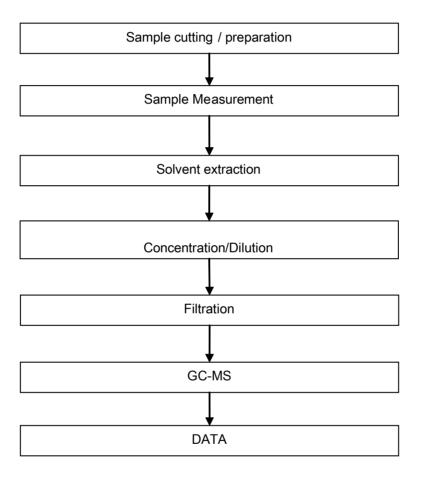
No. CANEC1406722801

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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Liu Qiong
- 2) Name of the person in charge of testing: Yolanda Wei





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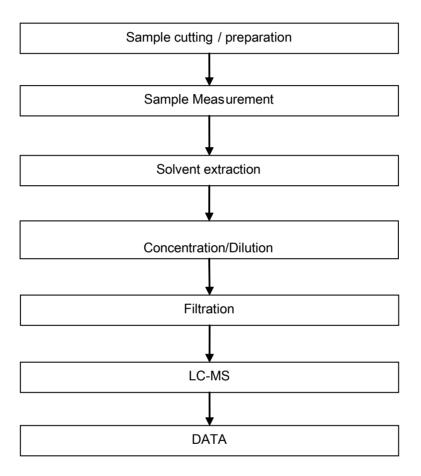
Date: 13 May 2014

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PFOA / PFOS Testing Flow Chart

1) Name of the person who made testing: Tina Zhao

2) Name of the person in charge of testing: Yolanda Wei





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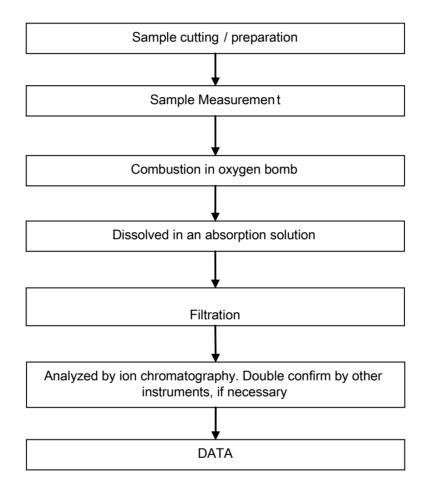
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Halogen Testing Flow Chart

1) Name of the person who made testing: Bella Wang

2) Name of the person in charge of testing: Adams Yu





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Sample photo:



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FLAT RIBBON WIRE			Part No.:	ZHA A9-0013
Cross	Section		Performance	
Marking Marking Marking Marking	Insulation Conductor	Electrical Characteristics: Dielectric Strength (kV/min Max. DC Resistance at 20°C	1)	0.5 381
	iption			
Rated Voltage (V) Rated Temperature (°C)	30 105			
4Cores	ruction Stranded Tinned Co	pper		
AWG Construction Stranded Dia. (mm) Insulation Nom. Thickness (mm) Min. Thickness (mm) Insulation Dia. (±0.05mmx±0.15mm) Weight (kg/km)	30 7/0.10 0.3 PVC 0.18 0.13 0.70x3 .			
Co color of insulation:	lor			
According to the customers' requirement				
Part No. : ZHAA9-0013 Length/Reel: 610m/R	Customer's name: 珠海展興	微械 A BELDEN COMPANY	7/F Harbour View 2, 16 Hong Kong Science Par Tel: (852) 2382 1133	NG CO. LTD. Science Park East Avenue rk, Shatin, Hong Kong Fax: (852) 2480 6327 URL: http://www.ltkcable.com
Ref. spec No. : GD-9245	Rev: 0	LTK Electric Wire (I	Huizhou) Ltd. <u>• Daliar</u>	n LTK Electric Wire Ltd.
	n History	 LTK Industries (Suz 	zhou) Ltd. • LTK C	Cable (Chongqing) Ltd.
-		Prepared by: HONGNI		Io.:TFA046 Rev.: 4

ONLINE CERTIFICATIONS DIRECTORY

AVLV2.E148000 Appliance Wiring Material - Component

Page Bottom

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Appliance Wiring Material - Component

See General Information for Appliance Wiring Material - Component

LTK ELECTRIC WIRE (HUIZHOU) LTD

DESAY 3RD INDUSTRIAL DISTRICT CHEN JIANG TOWN, ZHONG KAI RD HUIZHOU, GUANGDONG 516229 CHINA

	Table of Recognized Styles						
Single-co	onductor, the	ermoplastic i	nsulation.				
<u>1006</u>	<u>1497</u>	<u>1672</u>	<u>1839</u>	<u>10064</u>	<u>10309</u>	<u>10795</u>	<u>10953</u>
<u>1007</u>	<u>1499</u>	<u>1674</u>	<u>1848</u>	<u>10067</u>	<u>10310</u>	<u>10796</u>	<u>10958</u>
<u>1015</u>	<u>1500</u>	<u>1680</u>	<u>1849</u>	<u>10072</u>	<u>10311</u>	<u>10797</u>	<u>10981</u>
<u>1019</u>	<u>1503</u>	<u>1681</u>	<u>1862</u>	<u>10076</u>	<u>10312</u>	<u>10798</u>	<u>10982</u>
<u>1028</u>	<u>1504</u>	<u>1683</u>	<u>1863</u>	<u>10086</u>	<u>10313</u>	<u>10799</u>	<u>10983</u>
<u>1032</u>	<u>1505</u>	<u>1685</u>	<u>1864</u>	<u>10090</u>	<u>10314</u>	<u>10800</u>	<u>10984</u>
<u>1056</u>	<u>1508</u>	<u>1691</u>	<u>1865</u>	<u>10097</u>	<u>10316</u>	<u>10801</u>	<u>10985</u>
<u>1061</u>	<u>1516</u>	<u>1692</u>	<u>1866</u>	<u>10098</u>	<u>10325</u>	<u>10802</u>	<u>10986</u>
<u>1067</u>	<u>1517</u>	<u>1696</u>	<u>1870</u>	<u>10099</u>	<u>10328</u>	<u>10803</u>	<u>10987</u>
<u>1071</u>	<u>1523</u>	<u>1697</u>	<u>1871</u>	<u>10100</u>	<u>10331</u>	<u>10804</u>	<u>10992</u>
<u>1095</u>	<u>1533</u>	<u>1703</u>	<u>1874</u>	<u>10101</u>	<u>10333</u>	<u>10805</u>	<u>10993</u>
<u>1097</u>	<u>1534</u>	<u>1706</u>	<u>1878</u>	<u>10109</u>	<u>10337</u>	<u>10838</u>	<u>11004</u>
<u>1102</u>	<u>1536</u>	<u>1719</u>	<u>1886</u>	<u>10113</u>	<u>10368</u>	<u>10839</u>	<u>11005</u>
<u>1107</u>	<u>1547</u>	<u>1720</u>	<u>1895</u>	<u>10125</u>	<u>10369</u>	<u>10840</u>	<u>11006</u>
<u>1108</u>	<u>1551</u>	<u>1723</u>	<u>1900</u>	<u>10126</u>	<u>10388</u>	<u>10841</u>	<u>11007</u>
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<u>1110</u>	<u>1553</u>	<u>1730</u>	<u>1905</u>	<u>10137</u>	<u>10426</u>	<u>10843</u>	<u>11026</u>
<u>1112</u>	<u>1554</u>	<u>1731</u>	<u>1921</u>	<u>10138</u>	<u>10444</u>	<u>10844</u>	<u>11027</u>
<u>1113</u>	<u>1568</u>	<u>1732</u>	<u>1923</u>	<u>10150</u>	<u>10446</u>	<u>10845</u>	<u>11028</u>
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<u>1150</u>	<u>1571</u>	<u>1741</u>	<u>1942</u>	<u>10183</u>	<u>10450</u>	<u>10847</u>	<u>11030</u>
<u>1176</u>	<u>1572</u>	<u>1747</u>	<u>1949</u>	<u>10192</u>	<u>10453</u>	<u>10848</u>	<u>11035</u>
<u>1185</u>	<u>1577</u>	<u>1759</u>	<u>1959</u>	<u>10198</u>	<u>10454</u>	<u>10849</u>	<u>11041</u>
<u>1195</u>	<u>1581</u>	<u>1761</u>	<u>1966</u>	<u>10204</u>	<u>10456</u>	<u>10850</u>	<u>11042</u>
<u>1208</u>	<u>1583</u>	<u>1762</u>	<u>1967</u>	<u>10210</u>	<u>10461</u>	<u>10851</u>	<u>11043</u>
<u>1230</u>	<u>1585</u>	<u>1763</u>	<u>1972</u>	<u>10211</u>	10464	<u>10852</u>	<u>11044</u>
<u>1232</u>	<u>1586</u>	<u>1766</u>	<u>1973</u>	<u>10212</u>	<u>10468</u>	<u>10853</u>	<u>11045</u>

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AVLV2.E148000 - Appliance Wiring Material - Component

			VLV2.E148000 - Ap				
<u>1275</u>	<u>1589</u>	<u>1769</u>	<u>1978</u>	<u>10221</u>	<u>10482</u>	<u>10854</u>	<u>11046</u>
<u>1283</u>	<u>1596</u>	<u>1770</u>	<u>1984</u>	<u>10226</u>	<u>10483</u>	<u>10855</u>	<u>11047</u>
<u>1284</u>	<u>1597</u>	<u>1774</u>	<u>1987</u>	<u>10231</u>	<u>10492</u>	<u>10856</u>	<u>11048</u>
<u>1316</u>	<u>1598</u>	<u>1777</u>	<u>1988</u>	<u>10234</u>	<u>10493</u>	<u>10857</u>	<u>11059</u>
<u>1317</u>	<u>1605</u>	<u>1778</u>	<u>1989</u>	<u>10235</u>	<u>10495</u>	<u>10858</u>	<u>11060</u>
<u>1330</u>	<u>1610</u>	<u>1782</u>	<u>1990</u>	<u>10236</u>	<u>10496</u>	<u>10918</u>	<u>11080</u>
<u>1331</u>	<u>1617</u>	<u>1783</u>	<u>1992</u>	<u>10237</u>	<u>10498</u>	<u>10936</u>	<u>11081</u>
<u>1332</u>	<u>1618</u>	<u>1787</u>	<u>1999</u>	<u>10239</u>	<u>10499</u>	<u>10937</u>	<u>11082</u>
<u>1333</u>	<u>1624</u>	<u>1789</u>	<u>10002</u>	<u>10248</u>	<u>10501</u>	<u>10938</u>	<u>11083</u>
<u>1354</u>	<u>1631</u>	<u>1792</u>	<u>10005</u>	<u>10267</u>	<u>10504</u>	<u>10939</u>	<u>11084</u>
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<u>1490</u>	<u>1651</u>	<u>1833</u>	<u>10059</u>	<u>10306</u>	<u>10669</u>	<u>10951</u>	
<u>1494</u>	<u>1670</u>	<u>1835</u>	<u>10063</u>	<u>10308</u>	<u>10794</u>	<u>10952</u>	
Multiple-	conductor, t	thermoplasti	insulation.				
<u>2092</u>	<u>2552</u>	<u>2956</u>	<u>20280</u>	<u>20851</u>	<u>21126</u>	<u>21324</u>	<u>21469</u>
<u>2093</u>	<u>2554</u>	<u>2957</u>	<u>20292</u>	<u>20854</u>	<u>21130</u>	<u>21325</u>	<u>21472</u>
						21226	
<u>2094</u>	<u>2562</u>	<u>2960</u>	<u>20317</u>	<u>20855</u>	<u>21137</u>	<u>21326</u>	<u>21473</u>
<u>2094</u> 2095	2562 2569	<u>2960</u> <u>2969</u>	<u>20317</u> 20350	<u>20855</u> 20866	<u>21137</u> 21139	<u>21326</u> 21327	<u>21473</u> 21474
<u>2095</u>	<u>2569</u>	<u>2969</u>	<u>20350</u>	<u>20866</u>	<u>21139</u>	<u>21327</u>	<u>21474</u>
<u>2095</u> 2096	2569 2570	<u>2969</u> 2975	20350 20351	<u>20866</u> <u>20868</u>	<u>21139</u> 21140	<u>21327</u> <u>21328</u>	<u>21474</u> 21475
2095 2096 2097	2569 2570 2574	<u>2969</u> <u>2975</u> <u>2990</u>	20350 20351 20352	20866 20868 20911	21139 21140 21141	21327 21328 21329	21474 21475 21476
2095 2096 2097 2101	2569 2570 2574 2576	2969 2975 2990 2992	20350 20351 20352 20353	20866 20868 20911 20912	21139 21140 21141 21142	21327 21328 21329 21330	21474 21475 21476 21492
2095 2096 2097 2101 2102	2569 2570 2574 2576 2584	2969 2975 2990 2992 2996	20350 20351 20352 20353 20353 20379	20866 20868 20911 20912 20921	21139 21140 21141 21142 21143	21327 21328 21329 21330 21338	21474 21475 21476 21492 21503
2095 2096 2097 2101 2102 2103	2569 2570 2574 2576 2584 2586	2969 2975 2990 2992 2996 20002	20350 20351 20352 20353 20353 20379 20382	20866 20868 20911 20912 20921 20936	21139 21140 21141 21142 21142 21143 21145	21327 21328 21329 21330 21338 21398	21474 21475 21476 21492 21503 21504
2095 2096 2097 2101 2102 2103 2151	2569 2570 2574 2576 2584 2586 2586 2587	2969 2975 2990 2992 2996 20002 20007	20350 20351 20352 20353 20379 20382 20407	20866 20868 20911 20912 20921 20936 20939	21139 21140 21141 21142 21143 21145 21149	21327 21328 21329 21330 21338 21398 21399	21474 21475 21476 21492 21503 21504 21505
2095 2096 2097 2101 2102 2103 2151 2180	2569 2570 2574 2576 2584 2586 2587 2589	2969 2975 2990 2992 2996 20002 20007 20008	20350 20351 20352 20353 20379 20382 20382 20407 20410	20866 20868 20911 20912 20921 20936 20939 20940	21139 21140 21141 21142 21142 21143 21143 21145 21145 21149 21153	21327 21328 21329 21330 21338 21398 21399 21300	21474 21475 21476 21492 21503 21504 21505 21506
2095 2096 2097 2101 2102 2103 2151 2151 2180 2192	2569 2570 2574 2576 2584 2586 2587 2589 2590	2969 2975 2990 2992 2996 20002 20007 20008 20008	20350 20351 20352 20353 20379 20382 20382 20407 20410 20411	20866 20868 20911 20912 20921 20936 20939 20940 20948	21139 21140 21141 21142 21142 21143 21143 21145 21145 21149 21153 21154	21327 21328 21329 21330 21338 21398 21399 21400 21401	21474 21475 21476 21492 21503 21504 21505 21506 21507
2095 2097 2101 2102 2103 2151 2180 2192 2305	2569 2570 2574 2576 2584 2586 2587 2589 2590 2598	2969 2975 2990 2992 2996 20002 20007 20008 20009 20010	20350 20351 20352 20353 20379 20382 20407 20410 20411 20446	20866 20868 20911 20912 20921 20936 20939 20940 20948 20954	21139 21140 21141 21142 21143 21145 21145 21145 21145 21145 21145 21145 21145 21145 21145 21145 21153 21154 21161	21327 21328 21329 21330 21338 21398 21399 21400 21402	21474 21475 21476 21492 21503 21504 21505 21506 21507 21508
2095 2096 2097 2101 2102 2103 2151 2180 2192 2305 2343	2569 2570 2574 2576 2584 2586 2587 2589 2590 2598 2611	2969 2975 2990 2992 2996 20002 20007 20008 20009 20010 20011	20350 20351 20352 20353 20379 20382 20407 20410 20411 20446 20460	20866 20868 20911 20912 20921 20936 20939 20940 20948 20954 20957	21139 21140 21141 21142 21143 21145 21145 21145 21145 21145 21145 21145 21145 21145 21153 21154 21161 21165	21327 21328 21329 21330 21338 21398 21399 21400 21401 21402 21403	21474 21475 21476 21492 21503 21504 21505 21506 21506 21507 21508 21508
2095 2097 2101 2102 2103 2151 2192 2305 2343	2569 2570 2574 2576 2584 2586 2587 2589 2590 2598 2611 2612	2969 2975 2990 2992 2996 20002 20007 20007 20008 20009 20010 20011 20021	20350 20351 20352 20353 20379 20382 20407 20410 20410 20446 20446 20460 20468	20866 20868 20911 20912 20921 20936 20936 20939 20940 20948 20954 20954 20957 20957	21139 21140 21141 21142 21143 21145 21145 21145 21145 21145 21145 21145 21145 21145 21145 21153 21154 21161 21165 21179	21327 21328 21329 21330 21338 21398 21399 21400 21401 21402 21403 21404	21474 21475 21476 21492 21503 21504 21505 21506 21506 21507 21508 21509 21510

	1	1	VLV2.E 148000 - Ap				
<u>2444</u>	<u>2662</u>	<u>20066</u>	<u>20524</u>	<u>21026</u>	<u>21283</u>	<u>21408</u>	<u>21516</u>
<u>2448</u>	<u>2668</u>	<u>20080</u>	<u>20541</u>	<u>21027</u>	<u>21301</u>	<u>21409</u>	<u>21517</u>
<u>2461</u>	<u>2679</u>	<u>20095</u>	<u>20549</u>	<u>21028</u>	<u>21303</u>	<u>21410</u>	<u>21518</u>
<u>2462</u>	<u>2717</u>	<u>20097</u>	<u>20554</u>	<u>21036</u>	<u>21304</u>	<u>21411</u>	<u>21520</u>
<u>2464</u>	<u>2725</u>	<u>20099</u>	<u>20567</u>	<u>21047</u>	<u>21305</u>	<u>21412</u>	<u>21570</u>
<u>2468</u>	<u>2733</u>	<u>20120</u>	<u>20604</u>	<u>21064</u>	<u>21306</u>	<u>21413</u>	<u>21571</u>
<u>2473</u>	<u>2734</u>	<u>20153</u>	<u>20620</u>	<u>21069</u>	<u>21307</u>	<u>21414</u>	<u>21631</u>
<u>2474</u>	<u>2740</u>	<u>20170</u>	<u>20640</u>	<u>21073</u>	<u>21308</u>	<u>21415</u>	<u>21632</u>
2481	<u>2789</u>	<u>20195</u>	<u>20644</u>	<u>21074</u>	<u>21309</u>	<u>21416</u>	<u>21633</u>
<u>2482</u>	<u>2791</u>	<u>20197</u>	<u>20694</u>	<u>21080</u>	<u>21310</u>	<u>21451</u>	<u>21634</u>
<u>2483</u>	<u>2833</u>	<u>20201</u>	<u>20698</u>	<u>21088</u>	<u>21311</u>	<u>21452</u>	<u>21688</u>
<u>2493</u>	<u>2835</u>	<u>20233</u>	<u>20711</u>	<u>21089</u>	<u>21313</u>	<u>21453</u>	<u>21689</u>
<u>2497</u>	<u>2844</u>	<u>20234</u>	<u>20721</u>	<u>21099</u>	<u>21314</u>	<u>21454</u>	<u>21690</u>
2500	<u>2851</u>	<u>20235</u>	<u>20722</u>	<u>21100</u>	<u>21315</u>	<u>21455</u>	<u>21691</u>
<u>2501</u>	<u>2854</u>	<u>20236</u>	<u>20723</u>	<u>21101</u>	<u>21316</u>	<u>21456</u>	<u>21692</u>
<u>2509</u>	<u>2877</u>	<u>20251</u>	<u>20733</u>	<u>21115</u>	<u>21317</u>	<u>21457</u>	<u>21693</u>
<u>2514</u>	<u>2907</u>	<u>20253</u>	<u>20744</u>	<u>21116</u>	<u>21318</u>	<u>21458</u>	<u>21776</u>
<u>2517</u>	<u>2918</u>	<u>20254</u>	<u>20745</u>	<u>21117</u>	<u>21319</u>	<u>21460</u>	
2522	<u>2919</u>	<u>20276</u>	<u>20749</u>	<u>21118</u>	<u>21320</u>	<u>21461</u>	
<u>2547</u>	<u>2935</u>	<u>20278</u>	<u>20778</u>	<u>21119</u>	<u>21322</u>	<u>21462</u>	
<u>2551</u>	<u>2950</u>	<u>20279</u>	<u>20850</u>	<u>21120</u>	<u>21323</u>	<u>21468</u>	
		20279 ermoset insu		<u>21120</u>	<u>21323</u>	<u>21468</u>	
				<u>21120</u> <u>3413</u>	<u>21323</u> <u>3454</u>	<u>21468</u> <u>3502</u>	<u>3611</u>
Single-co	onductor, th	ermoset insu	lation.	I			<u>3611</u> <u>3612</u>
Single-co 3122	onductor, the	ermoset insu <u>3317</u>	lation. 3375	<u>3413</u>	<u>3454</u>	3502	
Single-co 3122 3135	<u>3273</u> <u>3275</u>	ermoset insu 3317 3320	lation. 3375 3376	<u>3413</u> <u>3415</u>	<u>3454</u> <u>3456</u>	<u>3502</u> <u>3505</u>	<u>3612</u>
Single-co 3122 3135 3137	3273 3275 3281	ermoset insu 3317 3320 3321	lation. 3375 3376 3377	3413 3415 3416	<u>3454</u> <u>3456</u> <u>3458</u>	<u>3502</u> <u>3505</u> <u>3506</u>	<u>3612</u> <u>3613</u>
Single-co 3122 3135 3137 3167	3273 3275 3281 3282	ermoset insu <u>3317</u> <u>3320</u> <u>3321</u> <u>3331</u>	lation. <u>3375</u> <u>3376</u> <u>3377</u> <u>3378</u>	3413 3415 3416 3417	3454 3456 3458 3459	3502 3505 3506 3511	<u>3612</u> <u>3613</u> <u>3619</u>
Single-co 3122 3135 3137 3167 3173	3273 3275 3281 3282 3286	ermoset insu <u>3317</u> <u>3320</u> <u>3321</u> <u>3331</u> <u>3336</u>	lation. <u>3375</u> <u>3376</u> <u>3377</u> <u>3378</u> <u>3379</u>	3413 3415 3416 3417 3423	3454 3456 3458 3459 3463	3502 3505 3506 3511 3558	3612 3613 3619 3623
Single-co 3122 3135 3137 3167 3173 3182	3273 3275 3281 3282 3286 3287	ermoset insu <u>3317</u> <u>3320</u> <u>3321</u> <u>3331</u> <u>3336</u> <u>3338</u>	lation. <u>3375</u> <u>3376</u> <u>3377</u> <u>3378</u> <u>3379</u> <u>3381</u>	3413 3415 3416 3417 3423 3424	3454 3456 3458 3459 3463 3464	3502 3505 3506 3511 3558 3564	3612 3613 3619 3623 3626
Single-co 3122 3135 3137 3167 3167 3173 3182 3194	3273 3275 3281 3282 3286 3287 3288	ermoset insu <u>3317</u> <u>3320</u> <u>3321</u> <u>3331</u> <u>3336</u> <u>3338</u> <u>3343</u>	lation. <u>3375</u> <u>3376</u> <u>3377</u> <u>3378</u> <u>3379</u> <u>3381</u> <u>3382</u>	3413 3415 3416 3417 3423 3424 3432	3454 3456 3458 3459 3463 3464 3469	3502 3505 3506 3511 3558 3564 3565	3612 3613 3619 3623 3626 3631
Single-co 3122 3135 3137 3167 3167 3173 3182 3194 3195	3273 3275 3281 3282 3286 3287 3288 3288 3289	ermoset insu 3317 3320 3321 3331 3331 3336 3338 3343 3344	lation. 3375 3376 3377 3377 3378 3378 3379 3381 3382 3383	3413 3415 3416 3417 3423 3424 3432	3454 3456 3458 3459 3463 3464 3469 3470	3502 3505 3506 3511 3558 3564 3565 3567	3612 3613 3619 3623 3626 3631 3633
Single-co 3122 3135 3137 3167 3167 3173 3182 3194 3195 3196	3273 3275 3281 3282 3286 3287 3288 3288 3289 3290	ermoset insu 3317 3320 3321 3331 3331 3336 3338 3338 3343 3344 3345	lation. 3375 3376 3377 3378 3378 3379 3381 3382 3382 3383 3384	3413 3415 3416 3417 3423 3424 3432 3433 3435	3454 3456 3458 3459 3463 3464 3469 3470 3473	3502 3505 3506 3511 3558 3564 3565 3567 3567 3569	3612 3613 3619 3623 3626 3631 3633 3635
Single-co 3122 3135 3137 3167 3167 3173 3182 3194 3195 3196 3199	3273 3275 3281 3282 3286 3287 3288 3288 3289 3290 3295	ermoset insu 3317 3320 3321 3331 3331 3336 3338 3338 3343 3344 3345 3346	lation. 3375 3376 3377 3378 3378 3379 3381 3382 3382 3383 3384 3385	3413 3415 3416 3417 3423 3424 3432 3433 3435 3436	3454 3456 3459 3463 3464 3469 3470 3473 3475	3502 3505 3506 3511 3558 3564 3565 3567 3569 3578	3612 3613 3619 3623 3626 3631 3633 3635 3649
Single-co 3122 3135 3137 3167 3167 3173 3182 3194 3195 3196 3199 3199	3273 3275 3281 3282 3286 3287 3288 3289 3290 3295 3296	3317 3317 3320 3321 3331 3336 3338 3343 3344 3345 3346 3347	Jation. 3375 3376 3377 3378 3379 3381 3382 3383 3384 3385 3386	3413 3415 3416 3417 3423 3424 3432 3433 3435 3436 3437	3454 3456 3458 3459 3463 3464 3469 3470 3473 3475 3480	3502 3505 3506 3511 3558 3564 3565 3567 3569 3578 3581	3612 3613 3619 3623 3626 3631 3633 3635 3649 3652
Single-co 3122 3135 3137 3167 3167 3182 3194 3195 3196 3199 3236 3239	3273 3275 3281 3282 3286 3287 3288 3289 3290 3295 3296 3297	3317 3317 3320 3321 3331 3331 3336 3338 3343 3344 3345 3346 3347 3348	Jaiton. 3375 3376 3377 3378 3378 3378 3378 3381 3382 3383 3384 3385 3386 3387	3413 3415 3416 3417 3423 3424 3432 3433 3435 3436 3437 3438	3454 3456 3458 3459 3463 3464 3469 3470 3473 3475 3480 3481	3502 3505 3506 3511 3558 3564 3565 3567 3569 3578 3581 3592	3612 3613 3619 3623 3626 3631 3633 3635 3649 3656
Single-co 3122 3135 3137 3167 3167 3182 3194 3195 3196 3199 3199 3236 3239 3247	3273 3275 3281 3282 3286 3287 3288 3289 3290 3295 3296 3297 3298 3298 3298 3298	3317 3317 3320 3321 3321 3331 3336 3338 3343 3344 3345 3346 3347 3348 3351	aition. 3375 3376 3377 3377 3378 3379 3381 3382 3383 3384 3385 3386 3387 3393	3413 3415 3416 3417 3423 3424 3432 3433 3435 3436 3437 3438 3439	3454 3456 3458 3459 3463 3464 3469 3470 3473 3475 3480 3485	3502 3505 3506 3511 3558 3564 3565 3567 3569 3578 3581 3592 3593	3612 3613 3619 3623 3626 3631 3633 3635 3649 3652 3656 3657
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5-9-16
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<u>388</u>5 3272 3315 3373 3409 3453 3500 <u>3610</u> Multiple-conductor, thermoset insulation. <u>4417</u> 4468 <u>4478</u> <u>4258</u> <u>4289</u> <u>4313</u> <u>4338</u> <u>4399</u> 4290 4400 4435 4259 4314 4359 4469 4486 4579 4260 4311 4319 4384 4401 4436 4470 <u>4288</u> <u>4312</u> <u>4320</u> <u>4398</u> <u>4407</u> <u>4465</u> 4471 Single and multiple-conductor specialty items. 5291 5292 5352 5361

AVLV2.E148000 - Appliance Wiring Material - Component

Marking: Company name or tradename "LTK", voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.

Last Updated on 2015-01-09

Questions?

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Report No. SCL01G025629001

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11	ZHOU ZHEN XIONG COPPER CO	,	UIZHOU			
	SHENG ELECTRONIC WIRE&CA					
	NO.5 SECTION, DAXIN INDUSTRIAL PARK, CHENJIANG STREET, ZHONGKAI					
HI-T	ECH INDUSTRIAL DEVELOPMEN	NT ZONE,HUIZHOU CI	ΓY,GUANGDONG			
PRO	VINCE					
The following sam	le(s) and sample information was/v	vere submitted and iden	tified by/on the			
behalf of the client	(°)		1			
Sample Name	Tinned Copper Wire					
Material	Cu, Sn					
Sample Received D	ate Aug. 11, 2014					
Testing Period	Aug. 11, 2014 to Aug. 14, 20	014				
Test Requested	As specified by client, to tes	t Lead (Pb) Cadmium (C	d) Mercury (Hg)			
rest Requested	1 2 7	Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs),				
	Polybrominated Diphenyl E	1				
Test Method	Please refer to the following	page(s).				
Test Result(s)	Please refer to the following	page(s).				
*****	*****	*****	*****			
Conclusion						
Tested Sampl	e According to	directive	Result			
Submitted Sam	ble 2011/65.	/EU*	Pass			

*2011/65/EU is a new version of RoHS Directive (2002/95/EC), which focuses on restriction of the use of certain hazardous substances (Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)) in electrical and electronic equipment.
Pass means that the results shown on the report do not exceed the limits set by RoHS Directive 2011/65/EU.



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Hotline

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400-6788-333







Report No.

SCL01G025629001

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Test Method

Test Item(s)	Tes	t Method	Measured Equipment(s)
Lead (Pb) IE		1-5:2013 Ed.1.0	ICP-OES
Cadmium (Cd)	IEC 6232	1-5:2013 Ed.1.0	ICP-OES
Mercury (Hg)	IEC 6232	1-4:2013 Ed.1.0	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2	008 Ed.1 Annex B	UV-Vis
Polybrominated Biphenyl(PBBs)	IEC 62321:2	008 Ed.1 Annex A	GC-MS
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2	008 Ed.1 Annex A	GC-MS
est Result(s)	(3)	/	1
Tested Item(s)	Result	MDL	Limit of Directive 2011/65/EU
Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium(Cr(VI))	Negative	/	1000 mg/kg
Tested Item(s)	Result	MDL	Limit of Directive 2011/65/EU
Polybrominated Biphenyl(PBBs)	S	6	I I I I I I I I I I I I I I I I I I I
Monobromobiphenyl	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg	1000 mg/ng
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	





Tested Item(s) Result		MDL	Limit of Directive 2011/65/EU
Polybrominated Diphenyl Ethers(P	BDEs)		(2)
Monobromodiphenyl ether	N.D.	5 mg/kg	6°)
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	10
Octabromodiphenyl ether	N.D.	5 mg/kg	S)
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	

Tested Sample/Part Description

Metal wire with silvery plating

Note:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury. -MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

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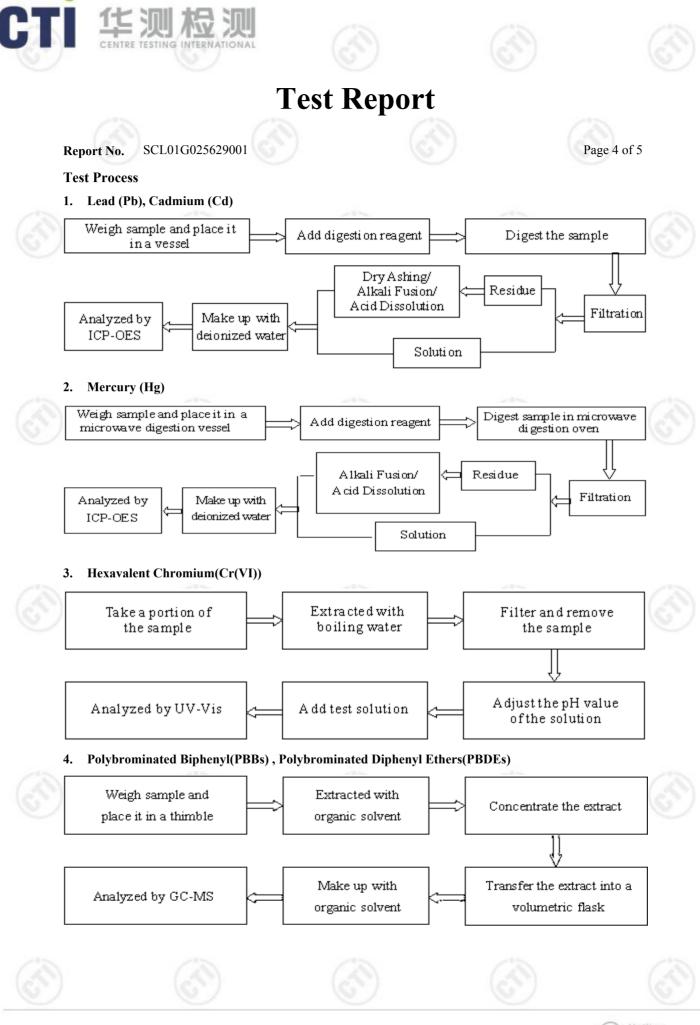
E-mail:info@cti-cert.com











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报告编号 SCL01H032440002E Report No. SCL01H032440002E

ビ测殻测

第1页 共10页 Page 1 of 10

申请单位乐庭电线工业(惠州)有限公司ApplicantLTK ELECTRIC WIRE (HUIZHOU) LTD地址广东省惠州市陈江德赛第三工业区AddressDESAY 3RD INDUSTRIAL DISTRICT, ZHONGKAI ROAD CHENJIANG TOWN,
HUIZHOU CITY GUANGDONG PROVINCE ,P.R.C

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

样品名称 Sample Name	318M 318M			
样品型号	318M			
Part No. 样品颜色	318M 灰色			
Color	次亡 Gray			
材料名称	色粉			
Material	Powder			
样品接收日期	2015.04.30			
Sample Received Dat	e Apr. 30, 2015			
样品检测日期	2015.04.30-2015.05.			
Testing Period	Apr. 30, 2015 to Ma	ay. 6, 2015		
检测要求		提交样品中的铅(Pb),镉 溴二苯醚(PBDEs),六溴3		
Test Requested	As specified by clien	t, to test Lead (Pb), Cadmi		,
		m(Cr(VI)), Polybrominate nenyl Ethers(PBDEs), Hex		
		s in the submitted sample(
金、检测依据/检测结果	请参见下页	· `	1	
Test Method/Test R		to the following page(s).		
主检 -	Lancy	审 核	Cath	Ч
Tested by		Reviewed b		J
批准		日期		
Approvertime	Infin	Date	2015.05.06	
ST SEL	Danny Liu	Duit		
	2		N. D1707	51057
SA ISA	chnical Manager	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	No. R1797	
	术股份有限公司 al (Shenzhen) Co., Ltd. Hongw		圳市宝安区70区鸿威工业员 istrict Shenzhen Guangdong	
	a (Shenzhen) Co., Edd. Hongw	el maastriar Eone, Buo an 70 B	Sarrey, Shenzhen, Saunguong	

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报告编号 SCL01H032440002E Report No. SCL01H032440002E

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检测依据 Test Method

华测检测

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测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 (Pb) Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
镉 (Cd) Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
汞 (Hg) Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
六价铬 (Cr (VI)) Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
多溴联苯 (PBBs) Polybrominated Biphenyl(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
多溴二苯醚 (PBDEs) Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
六溴环十二烷 (HBCDD) Hexabromocyclododecane (HBCDD)	参考 US EPA 3540C:1996 & US EPA 8270D:2007 Refer to US EPA 3540C:1996 & US EPA 8270D:2007	GC-MS
邻苯二甲酸酯 Phthalates	参考EN 14372:2004(E) Refer to EN 14372:2004(E)	GC-MS

检测结果 Test Result(s)

结果 Result	方法检出限 MDL	2011/65/EU指令限值 Limit of Directive 2011/65/EU
N.D.	2 mg/kg	1000 mg/kg
N.D.	2 mg/kg	100 mg/kg
N.D.	2 mg/kg	1000 mg/kg
N.D.	2 mg/kg	1000 mg/kg
	N.D. N.D. N.D.	新来 Kesult MDL MDL N.D. 2 mg/kg N.D. 2 mg/kg N.D. 2 mg/kg

报告编号 SCL01H032440002E Report No. SCL01H032440002E

华测检测

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测试项目 Test Item(s)	结果 Result	方法检出限 MDL	2011/65/EU指令限值 Limit of Directive 2011/65/EU	
多溴联苯(PBBs) Polybrominate	ed Biphenyl(PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg		
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg		
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg		
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg		
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	1000 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg		
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg		
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg		
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg		
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	(T)	

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SCL01H032440002E 报告编号 SCL01H032440002E **Report No.**

华测检测

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共 **10** 页 Page 5 of 10 第5页

则试项目 Test Item(s)	结果 Result 方法检出限 MDL		2011/65/EU指令限值 Limit of Directive 2011/65/EU	
多溴二苯醚 (PBDEs) Polybrominate	d Diphenyl Ethers	(PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg		
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg		
E溴二苯醚 ribromodiphenyl ether	N.D.	5 mg/kg		
Y溴二苯醚 Yetrabromodiphenyl ether	N.D.	5 mg/kg		
ī溴二苯醚 entabromodiphenyl ether	N.D.	5 mg/kg		
N溴二苯醚 Iexabromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg	
≤溴二苯醚 leptabromodiphenyl ether	N.D.	5 mg/kg	(A)	
、溴二苯醚 ctabromodiphenyl ether	N.D.	5 mg/kg		
L溴二苯醚 Jonabromodiphenyl ether	N.D.	5 mg/kg		
·溴二苯醚 ecabromodiphenyl ether	N.D.	5 mg/kg		
则试项目 Test Item(s)	结果]	Result	方法检出限 MDL	
六溴环十二烷 (HBCDD) Hexabromocyclododecane (HBCDD)	N.	D.	5 mg/kg	

Hexabromocyclododecane (HBCDD)

报告编号 SCL01H032440002E Report No. SCL01H032440002E

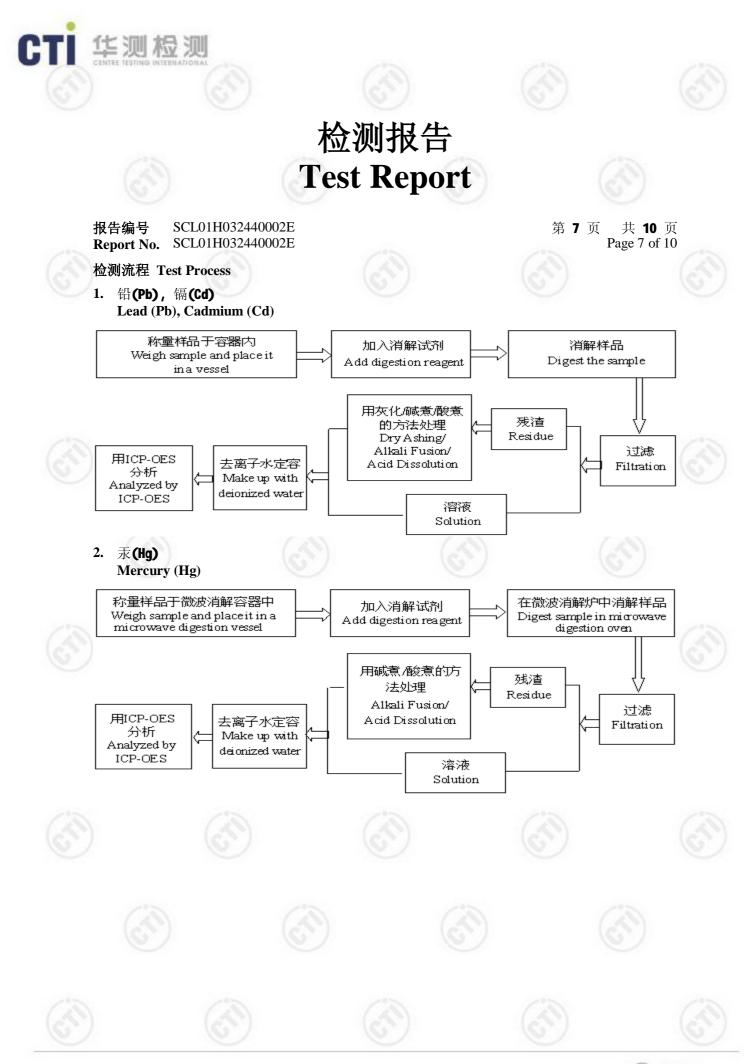
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第6页 共10页 Page 6 of 10

测试项	目 Tested Item(s)		(\mathbf{c})	结果 Result	方法	长检出限 MDL
	甲酸酯 Phthalates					
邻苯二 CAS#:8	甲酸二正丁酯 (DBP) :4-74-2	Dibutyl phthalate	(DBP)	N.D.		50 mg/kg
	甲酸丁基苄酯 (BBP) e(BBP) CAS#:85-68-			N.D.		50 mg/kg
	甲酸二 (2- 乙基己基) nylhexyl phthalate(DE		1-7	N.D.		50 mg/kg
	-N.D. = 未检出 -mg/kg= ppm = The sample(s) -MDL = Method -N.D. = Not Det	隔, 汞之样品已 十 (小于方法检出 = 百万分之一 had been dissolv 1 Detection Limit	owder 完全溶解。 出限)	sted for Lead,	Cadmium,	Mercury.

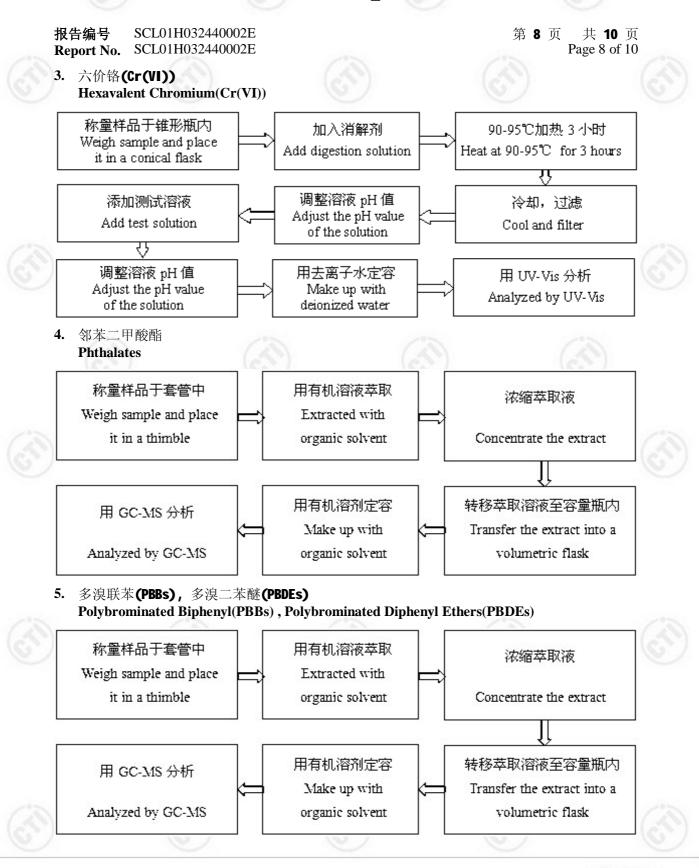




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样品图片



报告编号 SCL01H032440002E Report No. SCL01H032440002E

华测检测

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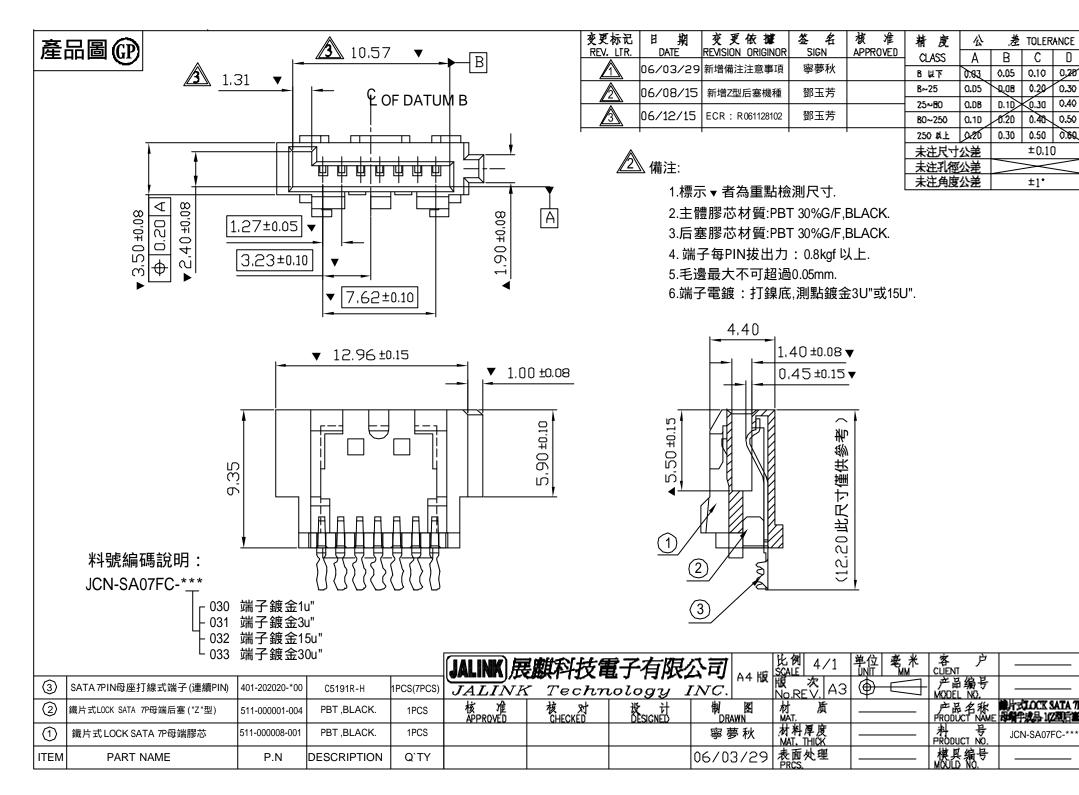
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С

D

0,20

0.30

0,40

0,50

0.60

產品圖 @	変更标记 REV. LTR.日期 DATE変更依據 REVISION ORIGINOR签名 SIGN核准 APPROVED精度 CLASS公 差 TOLERANCE②2005/6/16依2變更寧夢秋ABCD③2005/8/11依實物變更寧夢秋 </th
$ \begin{array}{c} 7.75 \\ 7.00 \\ 5.50 \\ 4.65 \\ 4.65 \\ 1.60 \\ 1.10 \pm 0.15 \\ 8.5 \\ 1.10 \pm 0.15 \\ 1.$	$\begin{array}{c c} \hline \\ \hline $
SEC B-B	SEC A-A
注: 1.未注毛邊高度0.05以內. 2.SEC B-B以"C"面爲基准. 3.SEC A-A以"D"面爲基准.	JALINK 展離科技電子有限公司 A4 版 比例 5/1 単位 毫米 客 户 JALINK Technology INC. A4 版 Scale 5/1 単位 電米 客 户

SHINIT

PBT

ENGINEERING PLASTIC DIVISION

SHINKONG SYNTHETIC FIBERS CORPORATION 新光合成纖維股份有限公司

8th Fl., 123, Sec.2, Nanking East Road, Taipei, Taiwan el : 886-2-2507-0131 886-2-2507-1251(30Lines) 886-3-4932131-17. Fax : 886-2-2506-8047 886-3-491-5763

Technical Data

SHINITE E202G30BK

FR/GF Grade / 防火 / 玻纖強化級: DE3886

		Unit	Test M	lethod	Values
Mechanical properties	機械性質				
Izod Impact(Notched)	衝擊強度	Kg-cm/cm	ASTM	D256	8.4
Tensile Strength	拉伸強度	Kg/cm ²	ASTM	D638	1200
Elongation	拉伸率	%	ASTM	D638	2.8
Flexural Strength	彎曲強度	Kg/cm ²	ASTM	D790	1870
Flexural Modulus	彎曲模數	Kg/cm ²	ASTM	D790	89700
Rockwell Hardness	洛式硬度	R	ASTM	D785	120
Thermal properties	熱性質				
Heat Deflection Temperature	熱變形溫度		ASTM	D648	
66psi		°C			-
264psi		°C			205
Flammability	防火性	-	UL	94	V 0
Melting Point	熔點	°C	DS	SC	223
Electrical properties	電氣性質				
Dielectric Strength	介電強度	KV/MM	ASTM	D149	20
Dielectric Constant	介電常數		ASTM	D150	4
Volume Resistivity	體積電阻	-CM	ASTM	D257	1.00E+16
Other properties	其它性質				
Specific Gravity	比重	-	ASTM	D792	1.60
Water Absorption	吸水率	%	ASTM	D570	0.07
Mold Shrinkage	成形收縮率		ASTM	D955	
Flow	流動方向	%			0.2~0.4
Cross Flow	垂直方向	%			0.5~0.9
				UL file n	umber: E107536

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Test Report No. : CE/2014/94375 Date : 2014/09/25

Page: 1 of 5

SHINKONG SYNTHETIC FIBERS CORPORATION 8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN (SHINKONG INDUSTRY (HANGZHOU) CO., LTD) (NO.1, AVENUE 6, ECONOMY & TECHNOLOGY DEVELOPMENT ZONE, HANGZHOU, CHINA)

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By Sample Description Style/Item No. Manufacturer/Vendor Country of Origin Sample Receiving Date Testing Period	 SHINKONG SYNTHETIC FIBERS CORPORATION THERMOPLASTIC POLYESTER RESIN SHINITE® PBT E202G30BK SHINKONG SYNTHETIC FIBERS CORPORATION TAIWAN 2014/09/19 2014/09/19 TO 2014/09/25
Test Requested	 As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.
Test Method Test Result(s)	Please refer to next page(s).Please refer to next page(s).



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No. : CE/2014/94375

Date : 2014/09/25

Page: 2 of 5

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Test Result(s)

PART NAME No.1

: BLACK PLASTIC PELLETS

	11	Unit Method		Result	
Test Item(s)	Unit			No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013	2	n.d.	
		and performed by ICP-AES.			
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013	2	11	
		and performed by ICP-AES.			
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013	2	n.d.	
		and performed by ICP-AES.			
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and	2	n.d.	
		performed by UV-VIS.			
Sum of PBBs	mg/kg		-	n.d.	
Monobromobiphenyl	mg/kg		5	n.d.	
Dibromobiphenyl	mg/kg		5	n.d.	
Tribromobiphenyl	mg/kg		5	n.d.	
Tetrabromobiphenyl	mg/kg		5	n.d.	
Pentabromobiphenyl	mg/kg		5	n.d.	
Hexabromobiphenyl	mg/kg		5	n.d.	
Heptabromobiphenyl	mg/kg		5	n.d.	
Octabromobiphenyl	mg/kg		5	n.d.	
Nonabromobiphenyl	mg/kg		5	n.d.	
Decabromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and	5	n.d.	
Sum of PBDEs	mg/kg	performed by GC/MS.	-	n.d.	
Monobromodiphenyl ether	mg/kg		5	n.d.	
Dibromodiphenyl ether	mg/kg		5	n.d.	
Tribromodiphenyl ether	mg/kg		5	n.d.	
Tetrabromodiphenyl ether	mg/kg		5	n.d.	
Pentabromodiphenyl ether	mg/kg		5	n.d.	
Hexabromodiphenyl ether	mg/kg]	5	n.d.	
Heptabromodiphenyl ether	mg/kg		5	n.d.	
Octabromodiphenyl ether	mg/kg		5	n.d.	
Nonabromodiphenyl ether	mg/kg]	5	n.d.	
Decabromodiphenyl ether	mg/kg		5	n.d.	

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated

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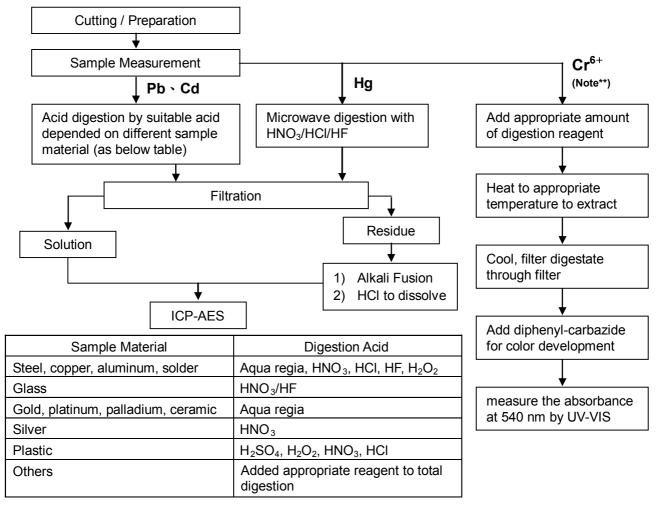


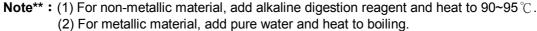
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. $(Cr^{6+}$ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang





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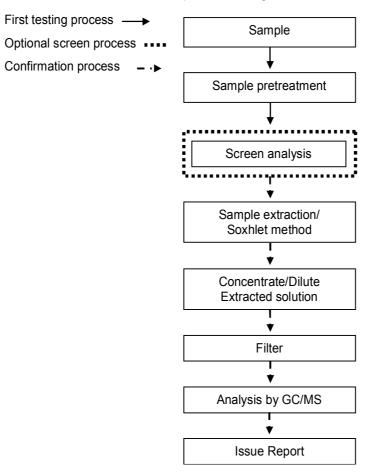
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Date : 2014/09/25

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PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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* The tested sample / part is marked by an arrow if it's shown on the photo. *



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Issued Dat : 2014. 07. 21

Page 1 of 6

LEE KU INDUSTRIALS CO.,LTD. 42,Poseunggongdan-ro Poseung-eup Pyeongtak-si,Gyeonggi-do Korea

The following sample(s) wa/were subnitted and idetified by/on bealf othe client as:-

SGS File No.	: AYAA14-34559
Product Name	: C5191(Phosphor Broze Sn6%)
Item No./Part No.	: N/A
Buyer(s)	: KAI KEE METAL, SANSUNG
Received Date	: 2014. 07. 14
Test Period	: 2014. 07. 15 to 2014. 07. 21
Test Results	: For futher deails, pease refer tofollowing page(s)

SGS Korea Co., Ltd.

Jeff Jang / Gemical Lab Mgr



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SGS Korea Col.Ltd.

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Page 2 of 6

Sample No.	: AYAA14-34559.001		
Sample Description	: C5191(Phosphor Broze Sn6%)		
Item No./Part No.	: N/A		
Materials	: N/A		

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)		With reference IEO62321-5:2013 (Determination Cadmium by IP-OES)	0.5	N.D.
		With reference IEO62321-5:2013 (Determination 6 Lead by CP-OES)	5	43.2
ercury (Hg) mg/kg With reference IEC62321-4:2013 (Determination Mercury by ICP-OES)		2	N.D.	
Hexavalent Chromium (C VI) By biding ** water extraction*		With reference b IEC62321:2008 (Determination of Hexavalent Chromium by spot tst/Colorimetric Method sing UV-Vis)	-	Negative
Beryllium (Be)	mg/kg	With reference	0.5	N.D.

Flame Reardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Nonobromobiphenyl	mg/kg	IEC62321:2008 (Determination and BDEs by GC-MS)	5	N.D.
)ibromobiphenyl	mg/kg	IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
ribromobiphenyl	mg/kg	IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
etrabromobiphenyl	mg/kg	IEC62321:2008 (Determination and IBDEs by GC-MS)	5	• N.D.
Pentabromobiphenyl	mg/kg	IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
lexabromobiphenyl	mg/kg	TEO62321:2008 (Determination and TBDEs by GC-MS)	5	. N.D.
Heptabromobiphenyl	mg/kg	IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Octabromobiphenyl	mg/kg	IEC62321:2008 (Determination ad IBDEs by GC-MS)	5	N.D.
Nonabromobiphenyl	mg/kg	IEC62321:2008 (Determination ad IBDEs by GC-MS)	5	N.D.
Decabromobiphenyl	mg/kg	IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Monobromodiphenyl etter	mg/kg	IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Dibromodiphenyl eber	mg/kg	IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Tribromodiphenyl ether	mg/kg	IEQ62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.

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Issued Dat : 2014. 07. 21

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Sample No.	: AYAA14-34559.001		
Sample Description	: C5191(Phosphor Broze Sn6%)		
Item No./Part No.	: N/A		
Materials	: N/A		

Flame Reardants-PBBs/PBDEs

Test Items	Unit	-	Test Method	MDL	Results
Tetrabromodiphenyl ether	mg/kg	A REAL PROPERTY AND A REAL	IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Pentabromodiphenyl etter	mg/kg		IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Hexabromodiphenyl ether	_mg/kg		IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Heptabromodiphenyl ether	mg/kg		IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Octabromodiphenyl ether	mg/kg		IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Nonabromodiphenyl etter	mg/kg		IEC62321:2008 (Determination ' and IBDEs by GC-MS)	5	N.D.
Decabromodiphenyl ether	mg/kg		IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.

NOTE:

(1) N.D. =Not detected.(<MDL) (2) mg/kg =ppm

(3) MDL = Method Detection Limit

(4) - = Noregulation

(5) Negative =Undetectable / Psitive =Detectable

(6) ** = Qualitative analysis (No Unit)

(7) * =Boiling-water-extraction:

Negative = Alsence of CrVI cating

Psitive = Presence of CrVI coating; the detected concentration in bding-water-extraction solition is equal or geater than 0.02 mg/kg with 5 on 2 sample sufface area.

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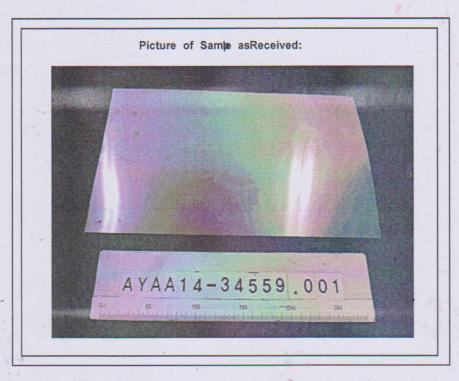
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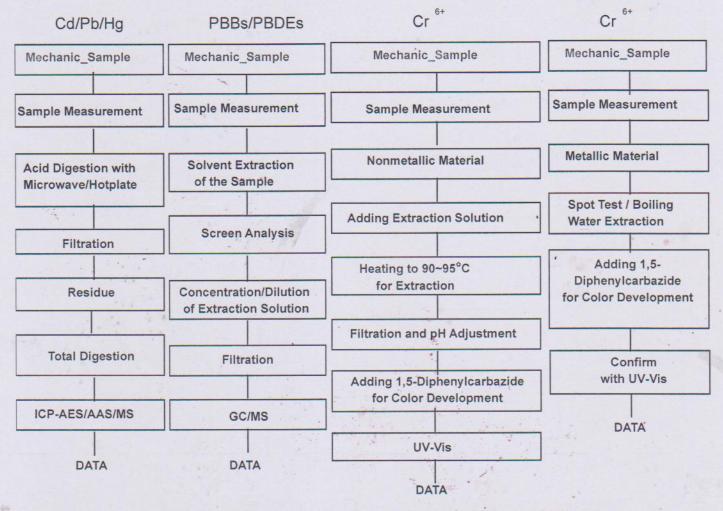
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Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr6+ /PBBs&PBDEs Testing



The samples were dissolved otally by pe-conditioning nethod acording to above flowchart for CdPb, Hg. dBen Chef Gilsae Yi

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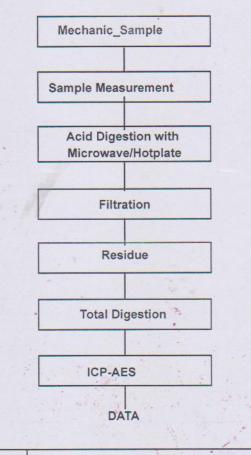
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Flow Chart for Inorganic Elements Testing

nbrganic Elements



Major Inorganic Heavy Metals Antimony(Sb) ,Beryllium(Be) , Phosphorus(P) , Arsenic(As) etc.

*** End of Report ***

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No. CANEC1506413211

Date: 29 Apr 2015

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SHENZHEN JUTENG METAL MATERIAL CO., LTD

BUILDING 2 HUAFENG OVERSEAS STUDENTS PIONEER PARK BAOLONG FIRST ROAD NANYUE LONGGANG DISTRICT SHENZHEN CITY

巨騰金屬材料有 01

The following sample(s) was/were submitted and identified on behalf of the clients as : SUS301

SGS Job No. :	CP15-021918 - SZ
Date of Sample Received :	24 Apr 2015
Testing Period :	24 Apr 2015 - 28 Apr 2015
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry

Merry Lv Approved Signatory



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No. CANEC1506413211

Date: 29 Apr 2015

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Test Results :

 Test Part Description

 Specimen No.
 SGS Sample ID
 Description

 SN1
 CAN15-064132.005
 Silver-gray metal

Remarks

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	005
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	\diamond	Negative

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

(2) Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

◇Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus result: of Cr(VI) represent status of the sample at the time of testing.



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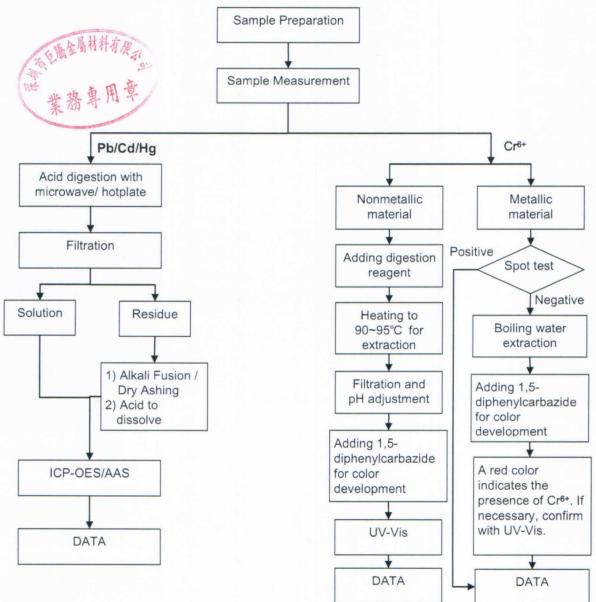
Date: 29 Apr 2015

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao
- 2) Name of the person in charge of testing: Bella Wang
- These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).





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Sample photo:



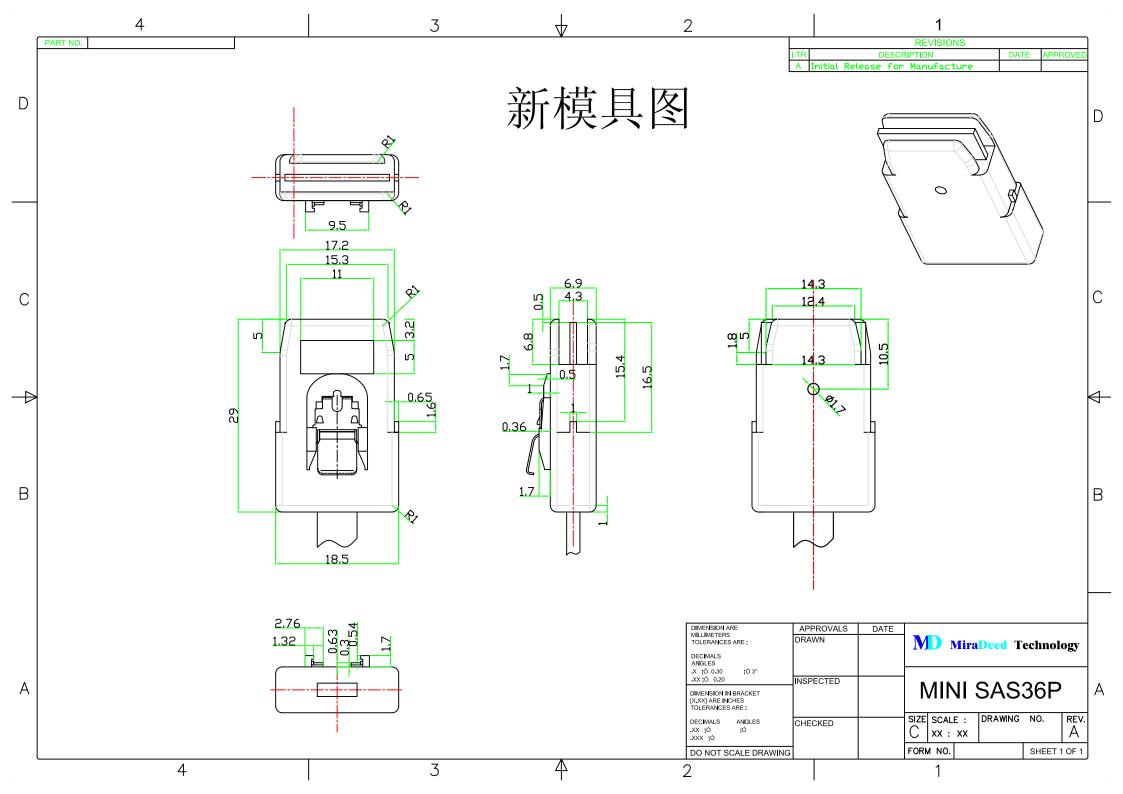
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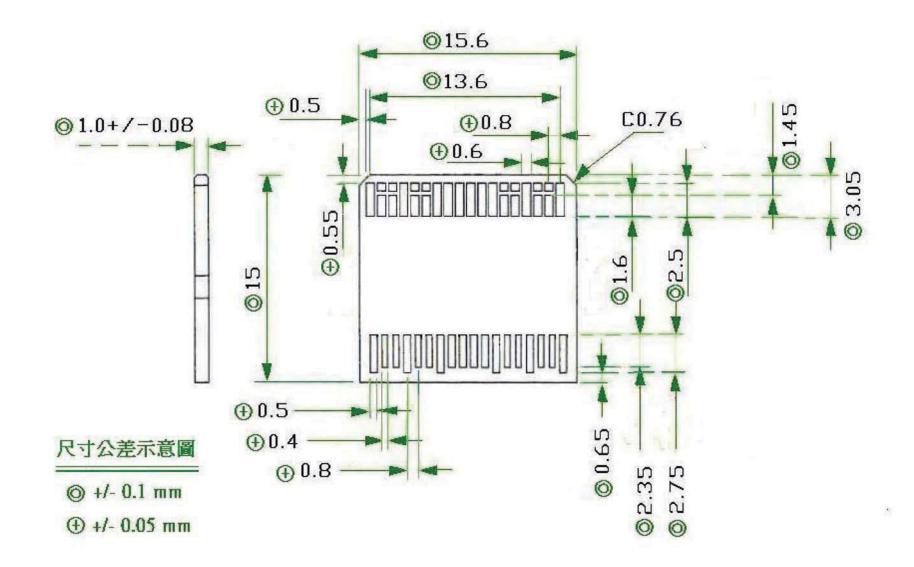
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測試報告

號碼(No.): CE/2014/42639 日期(Date): 2014/04/17 頁數(Page): 1 of 11

Test Report

鴻海精密工業股份有限公司 HON HAI PRECISION IND. CO., LTD. 新北市土城區自由街2號 NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

以下測試樣品係由申請廠商所提供	及確認 (The following sample(s) was/were submitted and identified by/on				
behalf of the applicant as):					
樣品名稱(Sample Description)	: POTASSIUM GOLD CYANIDE(金氰化鉀)				
樣品型號(Style/Item No.)	: 903-0000-020				
收件日期(Sample Receiving Date)	: 2014/04/11				
測試期間(Testing Period)	: 2014/04/11 TO 2014/04/17				

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).



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號碼(No.): CE/2014/42639 日期(Date): 2014/04/17 頁數(Page): 2 of 11

Test Report

鴻海精密工業股份有限公司 HON HAI PRECISION IND. CO., LTD. 新北市土城區自由街2號 NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 白色粉末 (WHITE POWDER)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
绨 / Antimony (Sb)	mg/kg	參考US EPA 3052方法,以感應耦合電漿原 子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.
砷 / Arsenic (As)	mg/kg	参考US EPA 3052方法,以感應耦合電漿原 子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.

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Test Report

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052方法,以感應耦合電漿原 子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法,以液相層析 /質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸 / PFOA (CAS No.: 335-67- 1)	mg/kg	参考US EPA 3550C: 2007方法,以液相層析 /質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	n.d.
鹵素(氯)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	參考BS EN 14582:2007,以離子層析儀分 析. / With reference to BS EN	50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582:2007. Analysis was performed by IC.	50	n.d.
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.



測試報告 Test Report ^{號碼(No.) : CE/2014/42639} 日期(Date) : 2014/04/17 頁數(Page) : 4 of 11

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n.d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg	1	5	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg	参考IEC 62321: 2008方法,以氣相層析/質 譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg	1	5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	1	5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	1	5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	1	5	n.d.



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Test Report

鴻海精密工業股份有限公司 HON HAI PRECISION IND. CO., LTD. 新北市土城區自由街2號 NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格値)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品 或塗層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semifinished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)



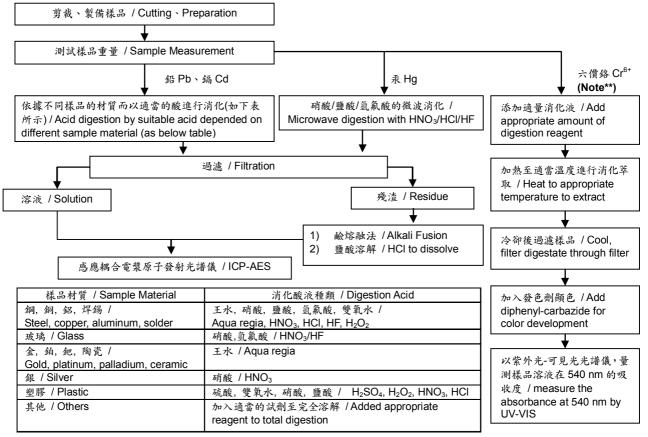
測試報告 號碼(No.) : CE/2014/42639 日期(Date) : 2014/04/17 頁數(Page) : 6 of 11 **Test Report** 鴻海精密工業股份有限公司

HON HAI PRECISION IND. CO., LTD.

新北市土城區自由街2號

NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

- dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.



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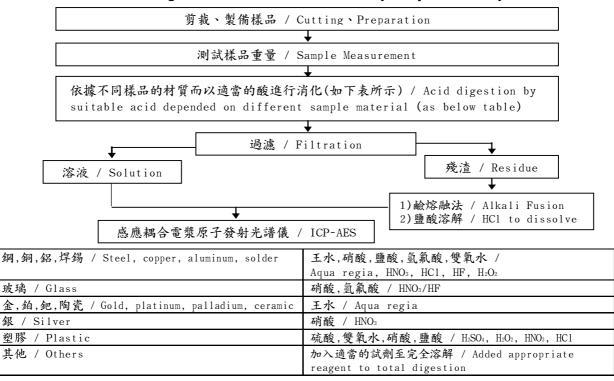
Test Report

鴻海精密工業股份有限公司 HON HAI PRECISION IND. CO., LTD. 新北市土城區自由街2號 NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)





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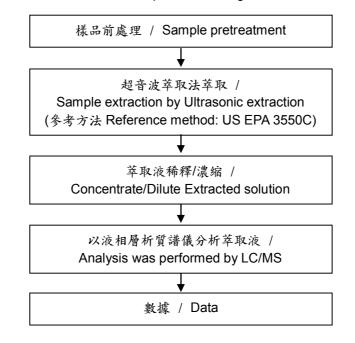
Test Report

鴻海精密工業股份有限公司 HON HAI PRECISION IND. CO., LTD. 新北市土城區自由街2號 NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





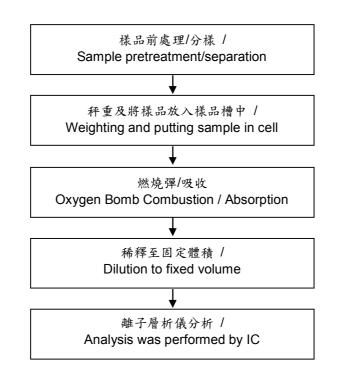
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





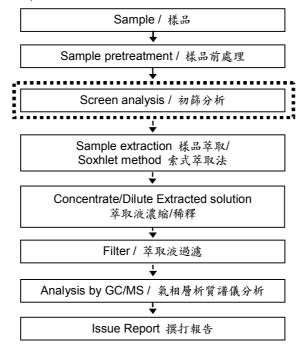
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鴻海精密工業股份有限公司 HON HAI PRECISION IND. CO., LTD. 新北市土城區自由街2號 NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang 初次測試程序 / First testing process →→
 選擇性篩檢程序 / Optional screen process - - - →





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鴻海精密工業股份有限公司 HON HAI PRECISION IND. CO., LTD. 新北市土城區自由街2號 NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾 (End of Report) **



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金居開發股份有限公司 CO-TECH DEVELOPMENT CORP. 64064雲林縣斗六市科工八路56號 NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

以下测試樣品係由客户送樣,且由客户聲稱並經客户確認如下

(The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)	:	電解銅箔
樣品型號(Style/Item No.)	:	SD101
訂單號碼(Order No.)	:	4500031611
收件日期(Sample Receiving Date)	:	2014/12/18
測試期間(Testing Period)	:	2014/12/18 TO 2014/12/27
送樣廠商(Sample Submitted By)	:	金居開發股份有限公司(CO-TECH DEVELOPMENT CORP.)
	=====	

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).





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金居開發股份有限公司 CO-TECH DEVELOPMENT CORP. 64064雲林縣斗六市科工八路56號 NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

<u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1 : 紅銅色/灰色 電解銅箔 (RED COPPER/GREY 電解銅箔)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合電漿原子 發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合電漿原子 發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法,以感應耦合電漿原子 發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價络 / Hexavalent Chromium Cr(VI) by boiling water extraction#	**	参考IEC 62321: 2008方法,用Boiling water extraction方法檢測. / With reference to IEC 62321: 2008 and performed by boiling water extraction Method.	0.02mg/kg with 50 cm ² surface area	Negative
多溴聯苯總和 / Sum of PBBs一溴聯苯 / Monobromobiphenyl二溴聯苯 / Dibromobiphenyl三溴聯苯 / Tribromobiphenyl四溴聯苯 / Tetrabromobiphenyl五溴聯苯 / Pentabromobiphenyl六溴聯苯 / Hexabromobiphenyl七溴聯苯 / Heptabromobiphenyl	mg/kg	參考IEC 62321: 2008方法,以氣相層析儀/質譜儀 檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	- 5 5 5 5 5 5 5 5 5 5	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.
八溴聯苯 / Octabromobiphenyl 九溴聯苯 / Nonabromobiphenyl 十溴聯苯 / Decabromobiphenyl			5 5 5	n.d. n.d. n.d.



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金居開發股份有限公司

CO-TECH DEVELOPMENT CORP.

64064雲林縣斗六市科工八路56號

NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether		參考IEC 62321:2008方法,以氣相層析儀/質譜儀	5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	檢測. / With reference to IEC 62321: 2008 and	5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether		performed by GC/MS.	5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.
多氯聯苯 / Polychlorinated Biphenyls (PCBs)	mg/kg	参考US EPA 3540C方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.
多氣奈 / Polychlorinated Naphthalene (PCNs)	mg/kg	參考US EPA 3540C方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
多氯三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考US EPA 3540C方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8))	%	參考US EPA 3540C: 1996方法,以氣相層析儀/電子 補捉偵測器檢測. / With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/ECD.	0.01	n.d.
滅蟻靈 / Mirex (CAS No.: 2385-85-5)	mg/kg	參考US EPA 8270D方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 8270D method. Analysis was performed by GC/MS.	4	n.d.
五氣酚 / PCP (Pentachlorophenol) (CAS No.: 87-86-5)	mg/kg	參考KOH方法,以氣相層析儀/電子捕捉偵測器 (GC/ECD)檢測。/With reference to KOH method. Analysis was performed by GC/ECD.	3	n.d.

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金居開發股份有限公司

CO-TECH DEVELOPMENT CORP.

64064雲林縣斗六市科工八路56號

NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	參考RSTS-E&E-121方法,以液相層析/質譜儀分析. / With reference to RSTS-E&E-121. Analysis was performed by LC/MS.	10	n.d.
福馬林(甲醛)/ Formaldehyde (CAS No.: 50-00-0)	mg/kg	參考ISO 17226-1方法,以高效液相層析儀/二極體 陣列偵測器檢測. / With reference to ISO 17226-1. Analysis was performed by HPLC/DAD.	3	n.d.
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237- 51-7, 134237-50-6, 134237-52-8))		參考IEC 62321: 2008方法,以氣相層析/質譜儀檢 測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.
雙酚 A / Bisphenol A (CAS No.: 80-05- 7)	mg/kg	參考RSTS-HL-229-1方法,以液相層析/質譜儀檢測. / With reference to RSTS-HL-229-1 method. Analysis was performed by LC/MS.	1	n.d.
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n.d.
聚氯乙烯 / PVC	* *	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative
全氟辛烷磺酸 (PFOS) (PFOS - Acid, Metal Salt, Amide)	μ g/m ²	參考US EPA 3550C: 2007方法,以液相層析/質譜儀 檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	1	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 335-67- 1)	μ g/m ²	參考US EPA 3550C: 2007方法,以液相層析/質譜儀 檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	1	n.d.

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金居開發股份有限公司

CO-TECH DEVELOPMENT CORP.

64064雲林縣斗六市科工八路56號

NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
有機錫 / Organic-tin compounds				
三丁基錫 / Tributyl Tin (TBT)		*测試參考ISO 17353: 2004方法,以氣相層析儀/	0.03	n.d.
三苯基錫 / Triphenyl Tin (TphT)		火焰光度偵測器檢測. / With reference to ISO	0.03	n.d.
三丁基錫氧化物 / Tributyl Tin Oxide (TBTO)*** (CAS No.: 56-35-9)	mg/kg	17353: 2004. Analysis was performed by GC/FPD.	-	n.d.
鹵素 / Halogen				
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)			50	n.d.
鹵素(氯)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)		参考BS EN 14582:2007,以離子層析儀分析./ With reference to BS EN 14582:2007.Analysis was performed by IC.	50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)	1		50	n.d.
石棉 / Asbestos				
陽起石棉 / Actinolite (CAS No.: 77536-66-4)			-	Negative
斜方角閃石棉 / Anthophyllite (CAS No.: 77536-67-5)		參考EPA 600/R-93/116 / 立體顯微鏡 (SM), 分散 染色式偏光顯微鏡 (DS-PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative
鐵石棉(褐石棉) / Amosite (CAS No.: 12172-73-5)			-	Negative
溫石棉(白石棉) / Chrysotile (CAS No.: 12001-29-5)	%		-	Negative
青石棉 / Crocidolite (CAS No.: 12001-28-4)	1		-	Negative
透閃石棉 / Tremolite (CAS No.: 77536-68-6)			-	Negative

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金居開發股份有限公司

CO-TECH DEVELOPMENT CORP.

64064雲林縣斗六市科工八路56號

NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
可塑劑定量分析 / Phthalates				
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate)			0.003	n.d.
(CAS No.: 85-68-7)				
鄰苯二甲酸-單-乙基己基酯 /			0.003	n.d.
MEHP (Mono(2-ethyl hexyl) Ester)				
(CAS No.: 4376-20-9)				
鄰苯二甲酸二環已酯 /			0.003	n.d.
DCHP (Di-cyclohexyl phthalate)				
(CAS No.: 84-61-7)				
鄰苯二甲酸二正戊酯/			0.003	n.d.
DNPP(Di-n-pentyl phthalate)				
(CAS No.: 131-18-0)		本測試參考EN 14372,以氣相層析儀/質譜儀檢測 之./With reference to EN 14372.Analysis		
鄰苯二甲酸二丙酯 /			0.003	n.d.
DPrP (Di-propyl phthalate)				
(CAS No.: 131-16-8)				
鄰苯二甲酸二乙酯 /	%		0.003	n.d.
DEP (Di-ethyl phthalate)		was performed by GC/MS.		
(CAS No.: 84-66-2)				
鄰苯二甲酸二己酯 /			0.003	n.d.
DNHP (Di-n-hexyl phthalate)				
(CAS No.: 84-75-3)				
鄰苯二甲酸二庚酯 /			0.003	n.d.
DHPP (Diheptyl Phthalate)				
(CAS No.: 3648-21-3)				
鄰苯二甲酸二異丁酯 /			0.003	n.d.
DIBP (Di-isobutyl phthalate)				
(CAS No.: 84-69-5)				
鄰苯二甲酸二異壬酯 /			0.01	n.d.
DINP (Di-isononyl phthalate)				
(CAS No.: 28553-12-0, 68515-48-0)				

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NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0, 68515-49-1)			0.01	n.d.
鄰苯二甲酸二正壬酯 / DNNP (Di-n-nonyl phthalate)(DNP) (CAS No.: 84-76-4)			0.003	n.d.
鄰苯二甲二異辛酯 / DIOP (Di-isooctyl phthalate) (CAS No.: 27554-26-3)			0.01	n.d.
鄰苯二甲酸二苯基酯 / DPhP(Diphenyl phthalate) (CAS No.: 84-62-8)		本測試參考EN 14372,以氣相層析儀/質譜儀檢測	0.003	n.d.
鄰苯二甲酸二(2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)			0.003	n.d.
對苯二甲酸(2-乙基己)酯 / DEHT (Di(2-ethylhexyl) terephthalate) (CAS No.: 6422-86-2)	%	$\dot{m{z}}$. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)			0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	-		0.003	n.d.
鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)			0.003	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)			0.003	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1	
己二酸二(2-乙基己基)酯 / DEHA (Bis(2-ethylhexyl) adipate) (CAS No.: 103-23-1)			0.003	n.d.	
鄰苯二甲酸二苯甲基酯 / DBZP(Dibenzyl phthalate) (CAS No.: 523-31-9)			0.003	n.d.	
鄰苯二甲酸正戊基異戊基酯 / nPiPP (N-pentyl-isopentylphtalate) (CAS No.: 776297-69-9)			0.003	n.d.	
鄰苯二甲酸二異戊酯 / DIPP (Diisopentyl Phthalat) (CAS No.: 605-50-5)	-	本測試參考EN 14372,以氣相層析儀/質譜儀檢測 % 之./With reference to EN 14372. Analysis	0.003	n.d.	
鄰苯二甲酸雙十一烷基酯 / DUDP (Di-n-undecyl phthalate) (CAS No.: 3648-20-2)			0.01	n.d.	
鄰苯二甲酸二(C6-8支鏈與直鏈)烷基酯,富 C7 / DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)		was performed by GC/MS.	0.01	n.d.	
鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯 / DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)				0.01	n.d.
己二酸二異壬酯 / DINA (Di-isononyl adipate) (CAS No.: 33703-08-1)			0.01	n.d.	
對苯二甲酸二甲酯 / DMTP (Dimethyl terephthalate) (CAS No.: 120-61-6)			0.003	n.d.	

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
支鏈和直鏈1,2-苯二羧二戊酯 / 1,2- Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)			0.003	n.d.
鄰苯二甲酸二癸酯 / DNDP (Di-n-decyl phthalate) (CAS No.: 87-77-5)			0.003	n.d.
鄰苯二甲酸二烯丙酯 / DAP (Diallyl phthalate) (CAS No.: 131-17-9)		本測試參考EN 14372,以氣相層析儀/質譜儀檢測 之./With reference to EN 14372.Analysis	0.003	n.d.
鄰苯二甲酸二(2-丁氧基)乙酯 / DBEP (Bis(2-n-Butoxyethyl)phthalate) (CAS No.: 117-83-9)		was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二 (2-乙氧基乙基)酯 / DEEP (bis (2-Ethoxyethyl)phthalate) (CAS No.: 605-54-9)			0.003	n.d.
鄰苯二甲酸二(4-甲基-2-戊基)酯 / BMPP (Di(4-methyl-2-Pentyl)phthalate) (CAS No.: 146-50-9)			0.003	n.d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
偶氮 (AZO)				
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	本測試參考EN 14362-1方法,以氣相層析質譜儀 (GC/MS)檢測. / With reference to EN 14362-1. Analysis was performed by GC/MS.	3	n.d.
2): 聯苯胺 / BENZIDINE (CAS No.: 92- 87-5)			3	n.d.
3): 4-氯鄰甲苯胺 / 4-CHLORO-O- TOLUIDINE (CAS No.: 95-69-2)			3	n.d.
4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No.: 91-59-8)			3	n.d.
5): 鄰氨基二甲基偶氮 / O- AMINOAZOTOLUENE (CAS No.: 97-56-3)			3	n.d.
6): 對硝基鄰甲苯胺 / 2-AMINO-4- NITROTOLUENE (CAS No.: 99-55-8)			3	n.d.
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 106-47-8)			3	n.d.
8): 4-甲氧基-間苯二胺 / 2,4- DIAMINOANISOLE (CAS No.: 615-05-4)			3	n.d.
9): 4,4'-二氨基二苯甲烷 / 4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 101- 77-9)			3	n.d.
10): 3,3'-二氯聯苯胺 / 3,3'- DICHLOROBENZIDINE (CAS No.: 91-94-1)			3	n.d.
11): 3,3'-二甲氧基聯苯胺 / 3,3'- DIMETHOXYBENZIDINE (CAS No.: 119-90-4)			3	n.d.
12): 3,3'-二甲基聯苯胺 / 3,3'- DIMETHYLBENZIDINE (CAS No.: 119-93-7)			3	n.d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 838- 88-0)	mg/kg	本測試參考EN 14362-1方法,以魚相層析質譜儀 (GC/MS)檢測. / With reference to EN 14362-1. Analysis was performed by GC/MS.	3	n.d.
14): 2-甲氧基-5-甲基聯苯 / P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 120-71-8)			3	n.d.
15): 4,4'-亞甲基雙(氯苯胺)/ 4,4'- METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)			3	n.d.
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 101-80-4)			3	n.d.
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE (CAS No.: 139-65-1)			3	n.d.
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)			3	n.d.
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE (CAS No.: 95-80-7)			3	n.d.
20): 2,4,5-三甲基苯胺 / 2,4,5- TRIMETHYLANILINE (CAS No.: 137-17-7)			3	n.d.
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 90-04-0)			3	n.d.
22): 對氨基偶氮苯 / P-AMINOAZOBENZENE (CAS No.: 60-09-3)			3	n.d.
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)			3	n.d.
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87-62-7)			3	n.d.



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備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格値)

5. # = a. Positive means the presence of CrVI on the tested areas

(Positive表示測試區域偵測到六價鉻)

b. Negative means the absence of CrVI on the tested areas

(Negative表示测試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas . / 該溶液濃度≧0.02 mg/kg with 50 cm² (tested areas)

- 6. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 7. ***: 該物質是由"三丁基錫", "三苯基錫"之測試結果計算得知. 其MDL是針對"三丁基錫", "三苯基錫" 之評估. (The substance was calculated by the test results of Tributyl Tin, Triphenyl Tin). The MDL is evaluated for Tributyl Tin, Triphenyl Tin .
- 8. 聚氯乙烯(PVC):Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 9. 石棉定性分析試驗範圍: <0.1%~100%,石棉鑑定的判定基準是以檢出含有石棉纖維為『Positive』,未檢出石棉 纖維為『Negative』。/ Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
- 10. 石棉測試由SGS其他實驗室執行 (The Asbestos test was subcontracted to other SGS Laboratory.)
- 11. 聚氯乙烯測試由SGS其他實驗室執行 (The PVC test was subcontracted to other SGS Laboratory.)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中不 得超過1µg/m²。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semifinished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)



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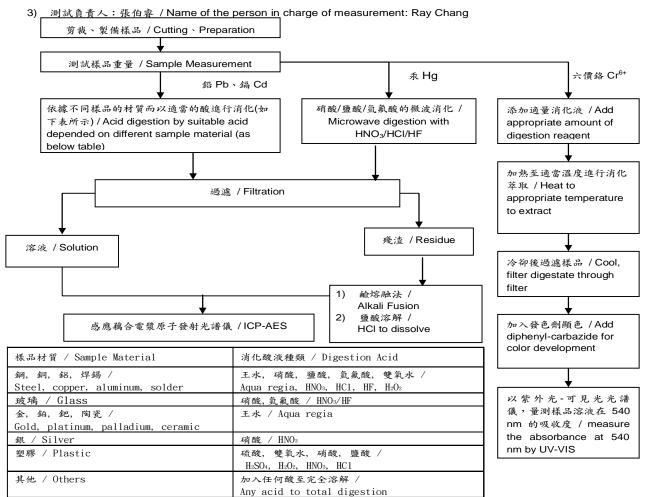
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NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員:劉俊宏 / Name of the person who made measurement: Jony Liu



Note**: (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.

(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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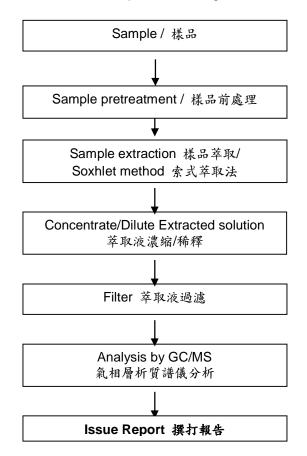


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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1) 測試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen 2)测試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang





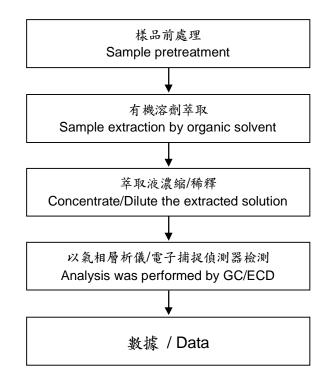
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含氯阻燃劑分析流程 /

Chlorinated Flame retardant analytical flow chart

- 1) 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯容 / Name of the person in charge of measurement: Ray Chang
 - 參考方法(Reference method): USEPA 3540
 - 測試項目(Test Items): PCBs, CP, MCCP / 多氯聯苯, 氯化石蠟, 中鏈氯化石蠟





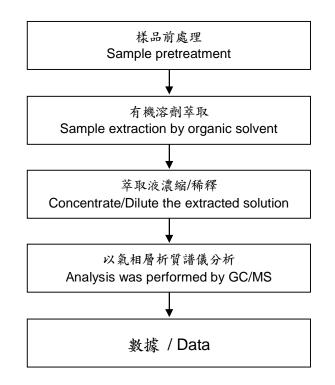
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含氯阻燃劑分析流程 1

Chlorinated Flame retardant analytical flow chart

- 1) 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang
 - 參考方法(Reference method): US EPA 8270D, US EPA 3540
 - 測試項目(Test Items): PCNs, PCTs, Mirex / 多氯奈, 多氯三聯苯,滅蟻靈,



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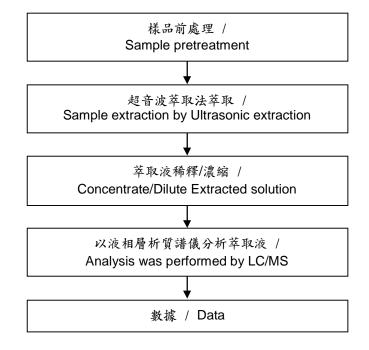


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四溴雙酚-A分析流程圖 / TBBP-A analytical flow chart

- 测試人員: 黃璟瓔/ Name of the person who made measurement: Ginny Huang
- 測試負責人:張伯睿/Name of the person in charge of measurement: Ray Chang





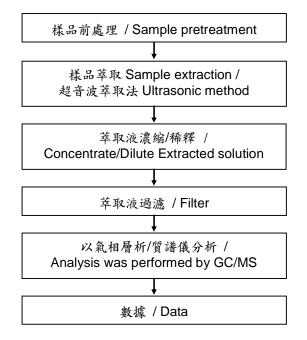
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

1) 测試人員:陳威錚/ Name of the person who made measurement: Dorothy Chen

2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



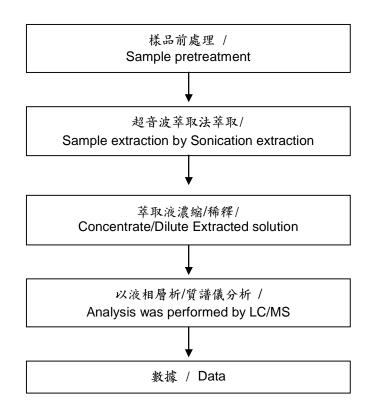


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雙酚A分析流程圖 / Bisphenol A analytical flow chart

- 測試人員: 黄璟璎 / Name of the person who made measurement: Ginny Huang
- 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang





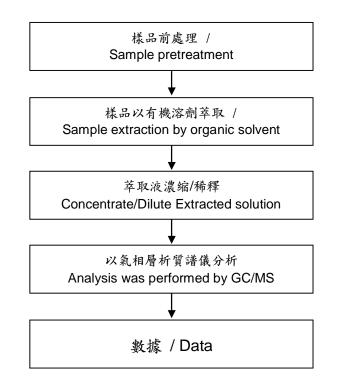
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富馬酸二甲酯分析流程圖 1

Analytical flow chart of Dimethyl Fumarate content

- 1) 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang





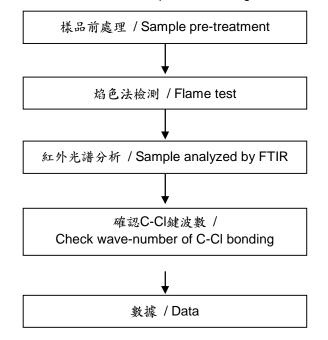
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

1)测試人員:戴秀純 / Name of the person who made measurement: Hannah Tai 2) 測試負責人: 林立翔 / Name of the person in charge of measurement: Roger Lin





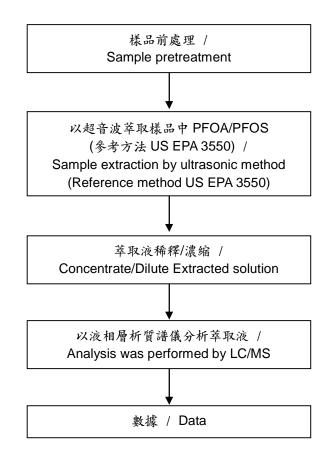
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全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)测試人員:黄璟瓔 / Name of the person who made measurement: Ginny Huang

2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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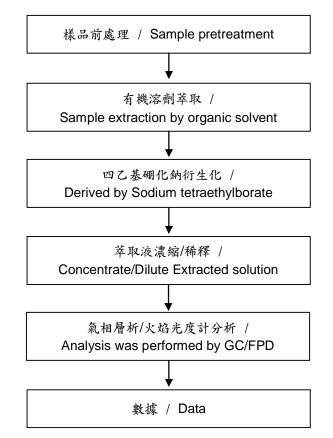


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有機錫分析流程圖 / Analytical flow chart of Organic-Tin content

- 1) 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



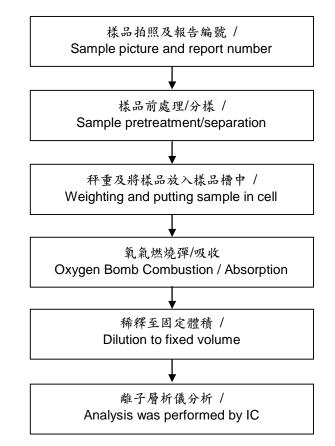


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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員:洪秀真/Name of the person who made measurement: Jean Hung
- 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



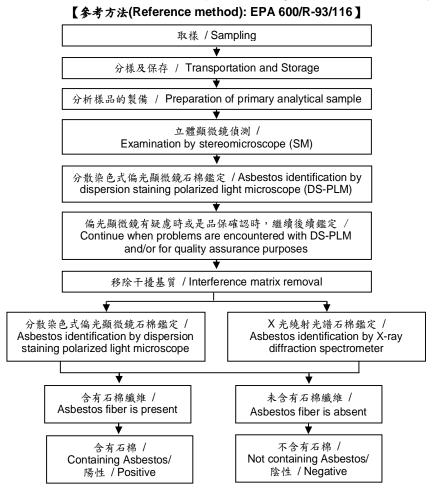


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石棉鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

- 测試人員:高鍵忠 / Name of the person who made measurement: Victor Kao
- 測試負責人:魏明芬 / Name of the person in charge of measurement: Wendy Wei



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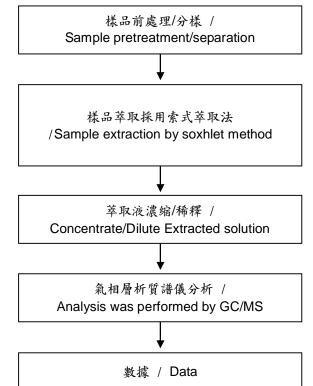
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

1) 测試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen

2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang





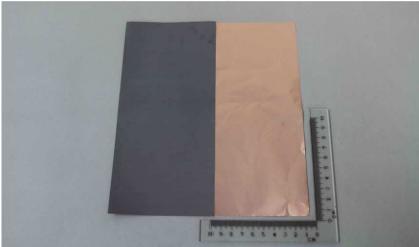
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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2014/C1451



** 報告結尾(End of Report) **

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測試報告 ^{號碼(No.)}: CE/2015/20347 日期(Date): 2015/02/16 頁數(Page): 1 of 65 **Test Report**

南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU) (廣東省東州市博羅縣石灣鎮衣石士道 / VONGSHL BOULEVARD SHUWAN TOWN BOLIO COUNTY HUIZHOU CITY GUARG DONG)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By)	:	南亞塑膠工業股份有限公司(NAN YA PLASTICS CORPORATION)
樣品名稱(Sample Description)	:	PREPREG (UL E98983)
樣品型號(Style/Item No.)	:	NP-140B
買主/訂單號碼(Buyer/Order No.)	:	10629B3
收件日期(Sample Receiving Date)	:	2015/02/02
測試期間(Testing Period)	:	2015/02/02 TO 2015/02/16

測試需求(Test Requested):

- (1) 依據客户要求,參考RoHS 2011/65/EU Annex II 指令測試鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
- (2) 依據客户要求, 參考 WTO/TBT 通報 G/TBT/N/EU/256, 檢測 DBP, BBP, DEHP, DIBP. (As specified by client, with reference to G/TBT/N/EU/256 of WTO/TBT to test DBP, BBP, DEHP, DIBP.)

(3) 依據客户要求, 檢測 PAHs 及其他測項. / As specified by client, to test PAHs and other item(s).

测试结果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) : 請見下一頁 (Please refer to next pages).





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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

結論(Conclusion)

- (1) 根據客户所提供的樣品,其鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚的測試結果符合 : RoHS 指令 2011/65/EU Annex II之要求 (Based on the performed tests on submitted samples, the test result(s) of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)
 - (2) 根據客户所提供的樣品,其 DBP, BBP, DEHP, DIBP 之測試結果符合 WTO/TBT 通報 G/TBT/N/EU/256 之限值要求 (Based on the performed tests on submitted samples, the test results of DBP, BBP, DEHP, DIBP comply with the limits as set by G/TBT/N/EU/256 of WTO/TBT.)
 - (3) 根據客户所提供的樣品,其 PAHs 的測試結果符合德國ZLS的ZEK 01.4-08及其相關修訂文 件中的第1類PAHs要求 (Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 1) of ZEK 01.4-08 of German ZLS and its amendments.)



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU) (廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 黄色板子 (YELLOW SHEET)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	7	1000
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV- VIS.	2	n.d.	1000
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.	-
氧化鈹 / Beryllium oxide (BeO)***	mg/kg	参考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP- AES.***	-	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)	限值 (Limit)
砷 / Arsenic (As) (※ 2)	mg/kg	参考SGS内部方法RSTS-EE-SVHC-007,	50	No.1 n.d.	-
		以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.			
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	_
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 1327-53-3)	mg/kg	参考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-
绨 / Antimony (Sb)	mg/kg	参考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.	-
硼 / Boron (B) (※2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-
硼酸 / Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	mg/kg	参考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	mg/kg	参考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-



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水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267- 73-1) (*2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	-	n.d.	-
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	参考Global SOP RSTS-E&E-121方法, 以液相層析/質譜儀分析. / With reference to Global SOP RSTS-E&E- 121. Analysis was performed by LC/MS.	10	n.d.	-
雙酚 A / Bisphenol A (CAS No.: 80- 05-7)	mg/kg	參考RSTS-HL-229-1方法,以超高效能 液相層析串聯質譜儀檢測. / With reference to RSTS-HL-229-1 method. Analysis was performed by UPLC- MSMS.	1	n.d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法,以液相 層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法,以液相 層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
2- (3', 5'-二叔丁基-2'-羟基苯基)苯並 三氮唑 / 2- (3,5-di-tert-butyl-2- hydroxyphenyl)-2H-benzotriazole (CAS No.: 3846-71-7)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測之. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
二氯化鈷 / Cobalt dichloride (CAS No.: 7646-79-9)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-



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多氯聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	参考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	-
多氣奈 / Polychlorinated Naphthalene (PCNs)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
多氣三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	-
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	100	n.d.	-
甲醛 / Formaldehyde (CAS No.: 50-00- 0)	mg/kg	參考ISO 17226-1(2008)方法,以高效 液相層析儀/二極體陣列偵測器檢測./ With reference to ISO 17226- 1(2008). Analysis was performed by HPLC/DAD.	3	n.d.	-
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative	-
六氟化硫 / Sulfur Hexafluoride (SF6) (CAS No.: 2551-62-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n.d.	-
磷酸三(2-氯乙基)酯 / Tris (2- chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(1-氯-2-丙基)酯 / Tris(1- chloro-2-propyl) phosphate (TCPP) (CAS No.: 13674-84-5)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(1,3-二氯異丙基)酯 / Tris(1,3- dichloro-2-propyl)phosphate (TDCPP) (CAS No.: 13674-87-8)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(二甲苯)酯 / Trixylyl phosphate (TXP) (CAS No.: 25155-23- 1)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	25	n.d.	-
六溴環十二烷及所有主要被辨别出的異構 物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法,以氣相層 析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	-



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對特辛基苯酚 / 辛基酚 / 4-(1,1,3,3- tetramethylbutyl) phenol, (4-tert- Octylphenol) (CAS No.: 140-66-9)	mg/kg	參考US EPA 3550C方法,以液相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by LC/MS.	10	n.d.	-
双(2-甲氧基乙基)醚 / Bis(2- methoxyethyl) ether (CAS No.: 111- 96-6)	mg/kg	参考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
N,N-二甲基乙醯胺 / N,N- dimethylacetamide (DMAC) (CAS No.: 127-19-5)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣 — 相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	1000
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	mg/kg		50	n.d.	-
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg		50	n.d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117-84-0)	mg/kg]	50	n.d.	-

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鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	參考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯 ,富C7 / DIHP (1,2- Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 / DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
鄰苯二甲酸二 (2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二異戊酯 / DIPP (DiisopentylPhthalate) (CAS No.: 605-50-5)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
支鏈和直鏈1,2-苯二羧二戊酯 / 1,2- Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-



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鄰苯二甲酸正戊基異戊基酯 / N-pentyl- isopentylphthalate	%	參考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二戊酯 / DPP (Di-pentyl phthalate) (CAS No.: 131-18-0)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二正戊酯 / DNPP (Di-n- pentyl phthalate) (CAS No.: 131-18- 0)	%	參考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
乙二醇二甲醚 / Ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
過氯酸鹽 / Perchlorate (CAS No.: 14797-73-0)	mg/kg	以離子層析儀檢測. / Analysis was performed by IC.	0.006	n.d.	-
溴甲烷 / Bromomethane (CAS No.: 74- 83-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
鹵素 / Halogen					
鹵素(氯)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	516	-
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	(1	參考BS EN 14582:2007,以離子層析儀 分析. / With reference to BS EN	50	72600	-
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	14582:2007. Analysis was performed by IC.	50	1330	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)	限值 (Limit)
(lest ltems)	(0111)	(Method)	(MDL)	No.1	
多溴聯苯總和 / Sum of PBBs			-	n.d.	1000
一溴聯苯 / Monobromobiphenyl			5	n.d.	-
二溴聯苯 / Dibromobiphenyl			5	n.d.	-
三溴聯苯 / Tribromobiphenyl			5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	-
五溴聯苯 / Pentabromobiphenyl			5	n.d.	-
六溴聯苯 / Hexabromobiphenyl			5	n.d.	-
七溴聯苯 / Heptabromobiphenyl		參考IEC 62321: 2008方法,以氣相層 析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.	-
八溴聯苯 / Octabromobiphenyl			5	n.d.	-
九溴聯苯 / Nonabromobiphenyl			5	n.d.	-
十溴聯苯 / Decabromobiphenyl			5	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	-		5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
有機錫 / Organic-tin compounds					
三丁基錫 / Tributyl Tin (TBT)			0.03	n.d.	-
三苯基錫 / Triphenyl Tin (TphT)		参考ISO 17353方法,以氣相層析儀/火	0.03	n.d.	-
二丁基錫 / Dibutyl Tin (DBT)	/1	焰光度偵測器檢測. / With reference	0.03	n.d.	-
二辛基錫 / Dioctyl Tin (DOT)	mg/kg	to ISO 17353. Analysis was	0.03	n.d.	-
三丁基錫氧化物 / Tributyl Tin Oxide (TBTO)*** (CAS No.: 56-35-9)		performed by GC/FPD.	-	n.d.	-
偶氮 (AZO)					
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
2): 聯苯胺 / BENZIDINE (CAS No.: 92- 87-5)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_
3): 4-氯鄰甲苯胺 / 4-CHLORO-O- TOLUIDINE (CAS No.: 95-69-2)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
4): 2-萘 胺 / 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
5): 鄰氨基二甲基偶氮 / O- AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
6): 對硝基鄰甲苯胺 / 2-AMINO-4- NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
8): 4-甲氧基-間苯二胺 / 2,4- DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
9): 4,4'-二氨基二苯甲烷 / 4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
10): 3,3'-二氯聯苯胺 / 3,3'- DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
11): 3,3'-二甲氧基聯苯胺 / 3,3'- DIMETHOXYBENZIDINE (CAS No.: 119-90- 4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
12): 3,3'-二甲基聯苯胺 / 3,3'- DIMETHYLBENZIDINE (CAS No.: 119-93- 7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
14): 2-甲氧基-5-甲基聯苯 / P- CRESIDINE (2-METHOXY-5- METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
15): 4,4'-亞甲基雙(氯苯胺)/ 4,4'- METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE (CAS No.: 139-65-1)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
20): 2,4,5-三甲基苯胺 / 2,4,5- TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
22): 對氨基偶氮苯 / 4- AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_
氫氟碳化物 / HFCs (Hydrofluorocarbon)					
氫氟碳化物(HFC)-23(CHF3)(CAS No.: 75-46-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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氫氟碳化物(HFC)-32(CH2F2)(CAS No.: 75-10-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氫氟碳化物(HFC)-41(CH3F)(CAS No.: 593-53-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-43-10mee (C5H2F10)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-125 (C2HF5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-134 (C2H2F4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物(HFC)-134a(CH2FCF3)(CAS No.: 811-97-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-143 (CH3F3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氫氟碳化物 (HFC)-143a (CH3F3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氫氟碳化物(HFC)-152a(C2H4F2)(CAS No.: 75-37-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-227ea (C3HF7) (CAS No.: 431-89-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-236fa (C3H2F6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-236ea (C3H2F6) (CAS No.: 431-63-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-245ca (C3H3F5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-245fa (C3H3F5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氫氟碳化物 (HFC)-365mfc (C4H5F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
全氟碳化物 / PFCs (Perfluorocarbon)					
四氟甲烷 / F14 (CAS No.: 75-73-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
六氟乙烷 / Fluorocarbon 116 (CAS No.: 76-16-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
八氟丙烷 / Freon 218 (CAS No.: 76- 19-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
十氟丁烷 / Decafluorobutane (CAS No.: 355-25-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
八氟環丁烷 / Freon C318 (CAS No.: 115-25-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟-1-丁烯 / Perfluor-1-butene (CAS No.: 357-26-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Itens)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)	限值 (Limit)
全氟異丁烯 / perfluorisobutene (CAS		參考US EPA 5021方法,以氣相層析/質	(MDL) 1	No.1	
至現共 1 % / perfluorisobutene (CAS No.: 382-21-8)	mg/kg	譜儀檢測. / With reference to US	1	n.a.	-
		EPA 5021 method. Analysis was performed by GC/MS.			
1,4-二氫八氟丁烷 / 1,4- dihydrooctafluorobutane (CAS No.: 377-36-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2-全氟甲基丁烷 / nonafluor-2- (trifluoromethyl)butane (CAS No.: 594-91-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟戊烷 / perfluoro-n-pentane (CAS No.: 678-26-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2-全氟甲基戊烷 / 2- perfluoromethylpentane (CAS No.: 355-04-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
全氟己烷 / perfluorohexane (CAS No.: 355-42-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯碳化物 / CFCs (Chlorofluorocarbons)					
Group I					
氟氯碳化物 (Chlorofluorocarbon)-11 (CAS No.: 75-69-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-12 (CAS No.: 75-71-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-113 (CAS No.: 76-13-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-114 (CAS No.: 76-14-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-115 (CAS No.: 76-15-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
Group III					
氟氟碳化物 (Chlorofluorocarbon)-13 (CAS No.: 75-72-9)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯碳化物 (Chlorofluorocarbon)-111 (CAS No.: 354-56-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-112 (CAS No.: 76-12-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-211 (CAS No.: 422-78-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氟碳化物 (Chlorofluorocarbon)-212 (CAS No.: 3182-26-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-213 (CAS No.: 2354-06-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-214 (CAS No.: 29255-31-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-215 (CAS No.: 4259-43-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯碳化物 (Chlorofluorocarbon)-216 (CAS No.: 661-97-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-217 (CAS No.: 422-86-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氢碳化物 / HCFCs (Hydrochlorofluorocarbons)					
氟氯氫碳化物 (HCFC)-21 (CAS No.: 75- 43-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氢碳化物 (HCFC)-22 (CAS No.: 75- 45-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-31 (CAS No.: 593-70-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-121 (CAS No.: 354-14-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氟氫碳化物 (HCFC)-122 (CAS No.: 354-21-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物(HCFC)-123(CAS No.: 306-83-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-124 (CAS No.: 2837-89-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-131 (CAS No.: 359-28-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-132b (CAS No.: 1649-08-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-133a (CAS No.: 75-88-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-141b (CAS No.: 1717-00-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯氫碳化物 (HCFC)-142b (CAS No.: 75-68-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氢碳化物 (HCFC)-221 (CAS No.: 422-26-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 (HCFC)-222 (CAS No.: 422-49-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 (HCFC)-223 (CAS No.: 422-52-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-224 (CAS No.: 422-54-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氢碳化物 (HCFC)-225ca (CAS No.: 422-56-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-225cb (CAS No.: 507-55-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯氫碳化物 (HCFC)-226 (CAS No.: 431-87-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氢碳化物 (HCFC)-231 (CAS No.: 421-94-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-232 (CAS No.: 460-89-9)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-233 (CAS No.: 7125-84-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氢碳化物 (HCFC)-234 (CAS No.: 425-94-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氢碳化物 (HCFC)-235 (CAS No.: 460-92-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氢碳化物 (HCFC)-241 (CAS No.: 666-27-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯氫碳化物 (HCFC)-242 (CAS No.: 460-63-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 (HCFC)-243 (CAS No.: 460-69-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 (HCFC)-244	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 (HCFC)-251 (CAS No.: 421-41-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-252 (CAS No.: 819-00-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 (HCFC)-253 (CAS No.: 460-35-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氢碳化物 (HCFC)-261 (CAS No.: 420-97-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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氟氯氫碳化物 (HCFC)-262 (CAS No.: 421-02-03)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-271 (CAS No.: 430-55-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halons)		· · · · · · · · · · · · · · · · · · ·			
海龍 (Halon)-1211 (CAS No.: 353-59- 3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halon)-1301 (CAS No.: 75-63-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halon)-2402 (CAS No.: 124-73- 2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
不完全鹵化氟溴化物 / HBFCs (Hydrobromofluorocarbons)					
不完全鹵化氟溴化物(HBFC)-21B2 (CHFBr2)(CAS No.: 1868-53-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物(HBFC)-22B1 (CHF2Br)(CAS No.: 1511-62-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-31B1 (CH2FBr) (CAS No.: 373-52-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-121B4 (C2HFBr4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-122B3 (C2HF2Br3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-123B2 (C2HF3Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氣溴化物(HBFC)-124B1 (C2HF4Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-131B3 (C2H2FBr3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-132B2 (C2H2F2Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-133B1 (C2H2F3Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-141B2 (C2H3FBr2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-142B1 (C2H3F2Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-151B1 (C2H4FBr)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
不完全鹵化氟溴化物 (HBFC)-221B6 (C3HFBr6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-222B5 (C3HF2Br5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-223B4 (C3HF3Br4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-224B3 (C3HF4Br3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-225B2 (C3HF5Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-226B1 (C3HF6Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-231B5 (C3H2FBr5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
不完全鹵化氟溴化物 (HBFC)-232B4 (C3H2F2Br4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-233B3 (C3H2F3Br3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-234B2 (C3H2F4Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-235B1 (C3H2F5Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-241B4 (C3H3FBr4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-242B3 (C3H3F2Br3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-243B2 (C3H3F3Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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不完全鹵化氟溴化物 (HBFC)-244B1 (C3H3F4Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-251B3 (C3H4FBr3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-252B2 (C3H4F2Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-253B1 (C3H4F3Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-261B2 (C3H5FBr2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-262B1 (C3H5F2Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-271B1 (C3H6FBr)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氯化碳氫化物 / CHCs (Chlorinate hydrocarbon)					
1,1,1,2-四氯乙烷 / 1,1,1,2- Tetrachloroethane (CAS No.: 630-20- 6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,1-三氯乙烷 / 1,1,1- Trichloroethane (CAS No.: 71-55-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,2,2-四氯乙烷 / 1,1,2,2- Tetrachloroethane (CAS No.: 79-34-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,2-三氯乙烷 / 1,1,2- Trichloroethane (CAS No.: 79-00-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1-二氯乙烷 / 1,1-Dichloroethane (CAS No.: 75-34-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1-二氯乙烯 / 1,1-Dichloroethene (CAS No.: 75-35-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
1,1-二氯丙烯 / 1,1-Dichloropropene (CAS No.: 563-58-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2,3-三氯丙烷 / 1,2,3- Trichloropropane (CAS No.: 96-18-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2-二氯丙烷 / 1,2-Dichloropropane (CAS No.: 78-87-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,3-二氯丙烷 / 1,3-Dichloropropane (CAS No.: 142-28-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2,2-二氯丙烷 / 2,2-Dichloropropane (CAS No.: 594-20-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
四氯甲烷(四氯化碳)/ Carbon tetrachloride (CAS No.: 56-23-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)	限值 (Limit)
氯乙烷 / Chloroethane (CAS No.: 75- 00-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	No.1 n.d.	_
氯仿 / Chloroform (CAS No.: 67-66-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氯甲烷 / Chloromethane (CAS No.: 74- 87-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
順-1,2-二氣乙烯 / cis-1,2- Dichloroethene (CAS No.: 156-59-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
順-1,3-二氯丙烯 / cis-1,3- Dichloropropene (CAS No.: 10061-01- 5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
六氯丁二烯 / Hexachlorobutadiene (CAS No.: 87-68-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
二氯甲烷 / Dichloromethane (CAS No.: 75-09-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
四氯乙烯 / Tetrachloroethene (CAS No.: 127–18–4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
反-1,2-二氯乙烯 / trans-1,2- Dichloroethene (CAS No.: 156-60-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
反-1,3-二氯丙烯 / trans-1,3- Dichloropropene (CAS No.: 10061-02- 6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
石綿 / Asbestos					
陽起石綿 / Actinolite (CAS No.: 77536-66-4)		參考EPA 600/R-93/116 / 立體顯微鏡 (SM),分散染色式偏光顯微鏡 (DS- PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative	-
鐵石綿(褐石綿) / Amosite (CAS No.: 12172-73-5)			-	Negative	-
斜方角閃石綿 / Anthophyllite (CAS No.: 77536-67-5)	- %		-	Negative	-
溫石綿(白石綿) / Chrysotile (CAS No.: 12001-29-5)			-	Negative	-
青石綿 / Crocidolite (CAS No.: 12001-28-4)			-	Negative	-
透閃石綿 / Tremolite (CAS No.: 77536-68-6)			-	Negative	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
多環芳香烴 / Polynuclear Aromatic					
Hydrocarbons (PAHs)					
苊 / Acenaphthene (CAS No.: 83-32-9)	mg/kg		0.2	n.d.	-
苊烯 / Acenaphthylene (CAS No.: 208-96- 8)	mg/kg		0.2	n.d.	-
蒽 / Anthracene (CAS No.: 120-12-7)	mg/kg		0.2	n.d.	-
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg		0.2	n.d.	-
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50- 32-8)	mg/kg		0.2	n.d.	-
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg		0.2	n.d.	-
苯駢芘 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg		0.2	n.d.	-
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg	參考ZLS standard ZEK 01.4-08方法,	0.2	n.d.	-
Chrysene (CAS No.: 218-01-9)	mg/kg	以氣相層析/質譜儀檢測./ With	0.2	n.d.	-
ニ苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	reference to ZLS standard ZEK 01.4–08 method. Analysis was	0.2	n.d.	-
苯駢芴 / Fluoranthene (CAS No.: 206-44- 0)	mg/kg	performed by GC/MS.	0.2	n.d.	-
芴 / Fluorene (CAS No.: 86–73–7)	mg/kg		0.2	n.d.	-
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg		0.2	n.d.	-
萘 / Naphthalene (CAS No.: 91-20-3)	mg/kg		0.2	n.d.	-
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg		0.2	n.d.	-
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg		0.2	n.d.	-
苯(j)苯联芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n.d.	-
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	n.d.	-
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg		-	n.d.	-



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備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格値)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 7. 石綿定性分析試驗範圍: <0.1%~100%,石綿鑑定的判定基準是以檢出含有石綿纖維為『Positive』,未檢出石綿纖維為 『Negative』 ∘ / Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
- 8. ***: 該物質是由三丁基錫, 砷, 硼或鈹各别之測試結果計算得知. 其MDL是針對三丁基錫, 砷, 硼或鈹之評估. (The substance was calculated by the test results of Tributyl Tin, Arsenic, Boron or Beryllium respectively. The MDL was evaluated for Tributyl Tin, Arsenic, Boron or Beryllium respectively.)
- 9. (*2): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作為代表(歐洲化學總署回信編號 Ref no.: INC 000000032519) / Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
- 10. (※2): 被萃取出的溶出硼/砷是以感應耦合電漿原子發射光譜儀檢測得之. / The extracted soluble Boron / Arsenic are detected by ICP-AES.
- 11. 參數換算表 / Parameter Conversion Table: Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
- 12. 鈹青銅是一種主要成份為鈹及銅的合金,當偵測不到總鈹含量時,亦表示不含鈹青銅. (Since beryllium copper is a metal alloy of copper and beryllium and the test result is n.d. for beryllium, we can have conclusion that the beryllium copper is n.d..)

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<u>PAHs参考資料(Reference information) :</u>

依據ZEK 01.4-08之要求:產品中最大值為

(Requirement of ZEK 01.4-08 : Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)	第3類 (Category 3)
	意圖放入嘴内的材料或與	可預見與皮膚接觸逾30秒	可預見與皮膚接觸短於30
	36個月以下的幼兒皮膚有	(長期與皮膚接觸),以及	秒(短期與皮膚接觸),以
	所接觸的玩具.	不屬於第1類的材料.	及不屬於第1類或第2類的
	(Material indented to	(Materials not falling	材料. (Materials not
	be put in the mouth or	under category 1 with	falling under category
	toys for children aged	foreseeable contact to	1 or 2 with foreseeable
	< 36 months with	skin for longer than 30	contact to skin for
	intended skin contact.)	seconds (long-term skin	less than 30 seconds
		contact).)	(short-term skin
			contact).)
苯駢(a)芘 Benzo[a]pyrene (mg/kg)	<mdl (<0.2)**<="" td=""><td>1</td><td>20</td></mdl>	1	20
18項PAH總濃度			
(Sum of 18 PAH)	<mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl>	10	200
(mg/kg)*			

<u>注意(Remark):</u>

* = PAH濃度大於0.2mg/kg時,則須計算PAH總濃度值.

(Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs.)

** = 最大濃度值超出等級一的限制,但在等級二的濃度限制值内時,可能需要確認測試材質是否適用於與食品或與口腔 黏膜接觸,並依照EN 1186 ff. and § 64 LFBG 80.30-1方法,針對特定PAH的遷移測試進行測試。遷移測試的結論需依 照食品規範評估。

(If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.)



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PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗 層材料中不得超過1µg/m2。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1 \mu g/m^2$.)

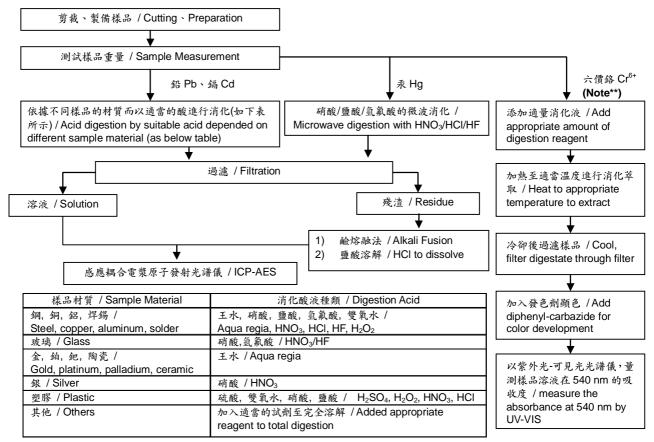


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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價 络測試方法除外) / These samples were
- dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.



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(南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD)

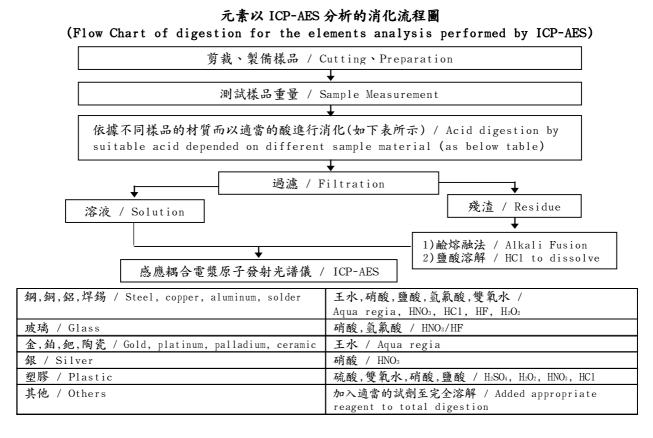
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





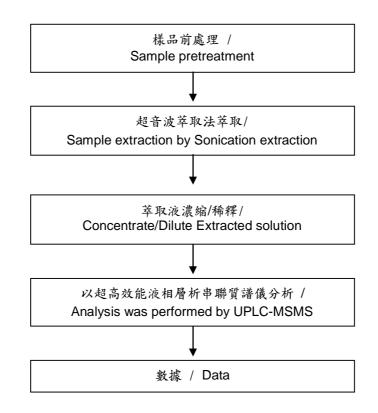
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雙酚A分析流程圖 / Bisphenol A analytical flow chart

- 測試人員:林建字 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





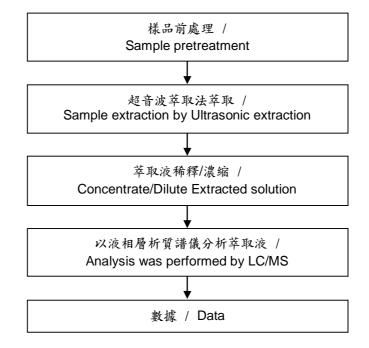
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四溴雙酚-A 分析流程圖 / TBBP-A analytical flow chart

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 测試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





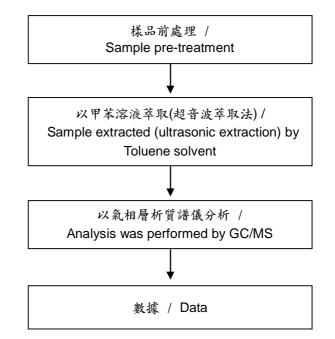
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多環芳香烴分析流程圖 / PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





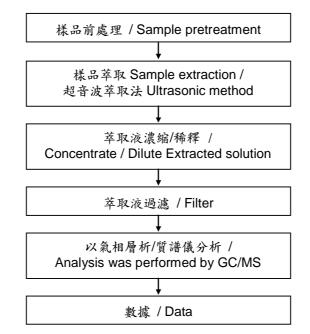
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乙二醇醚及其酯類分析流程圖 / Ethylene glycol ether analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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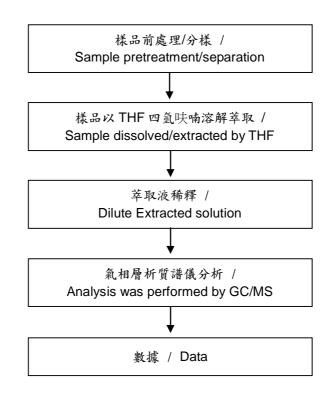
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員: 徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: IEC 62321-8】





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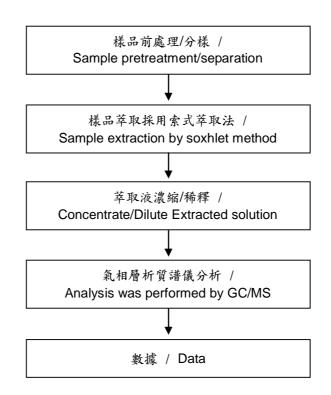
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: EN 14372】





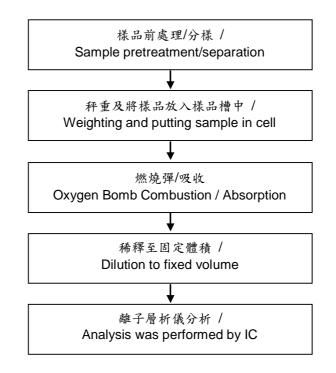
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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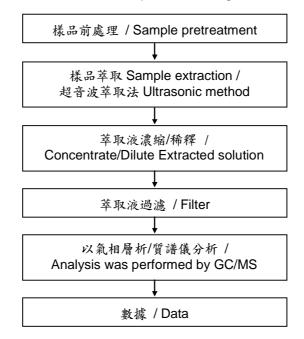
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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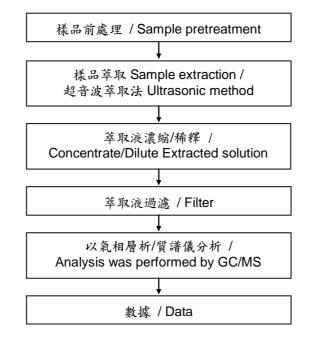
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富馬酸二甲酯分析流程圖 / Dimethyl Fumarate analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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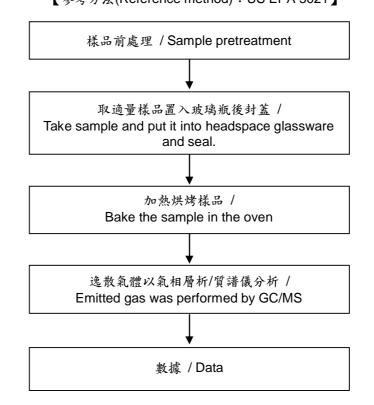
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揮發性有機化合物分析流程圖 / Analytical flow chart of volatile organic compounds (VOCs)

- 測試人員:吳椿景 / Name of the person who made measurement: Chun Wu
- 測試負責人:陳新智 / Name of the person in charge of measurement: Shinjyh Chen 【參考方法(Reference method): US EPA 5021】





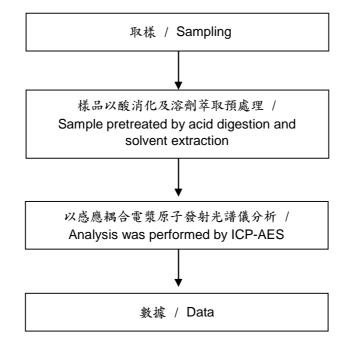
測試報告 ^{號碼(No.)}: CE/2015/20347 日期(Date): 2015/02/16 頁数(Page): 53 of 65 **Test Report**

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二氯化鈷分析流程圖 / Analytical flow chart of Cobalt dichloride

- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





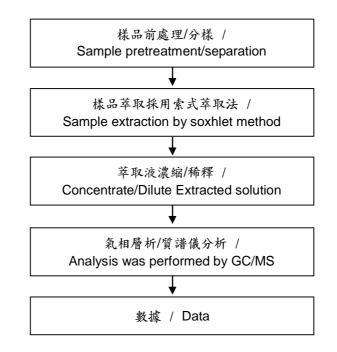
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苯並三唑類化合物分析流程圖 / Benzotriazole analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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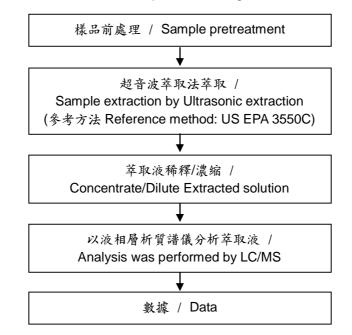
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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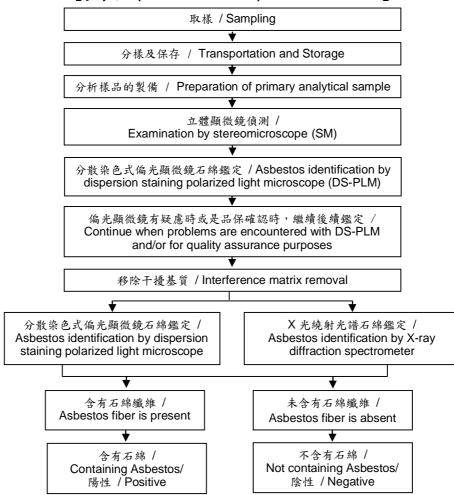
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石綿鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

- 測試人員:高鍵忠 / Name of the person who made measurement: Victor Kao
- 測試負責人:魏明芬 / Name of the person in charge of measurement: Wendy Wei

【参考方法(Reference method): EPA 600/R-93/116】



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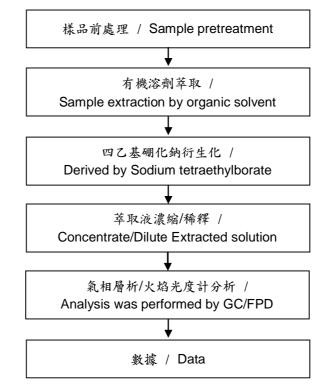
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有機錫分析流程圖 / Analytical flow chart of Organic-Tin content

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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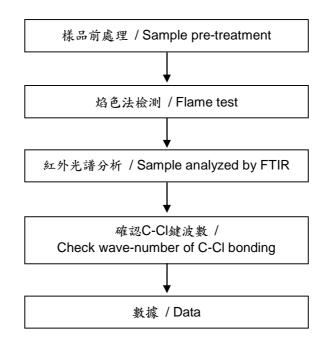
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





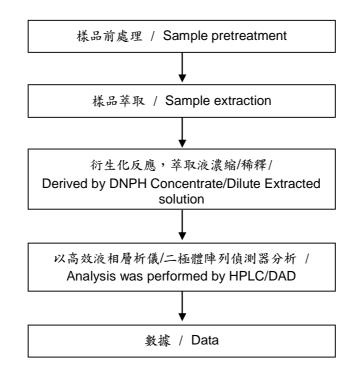
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甲醛分析流程圖 / Formaldehyde analytical flow chart

- 測試人員:涂雅苓 / Name of the person who made measurement: Yaling Tu
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





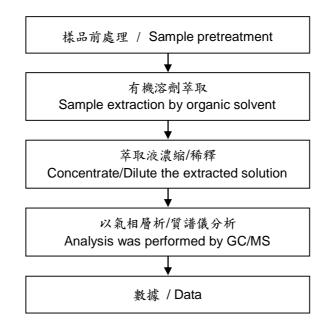
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氯化石蠟分析流程圖 / Chlorinated Paraffins analytical flow chart

- 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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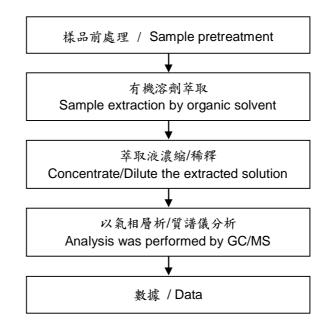
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多氯三聯苯分析流程圖 / PCTs analytical flow chart

■ 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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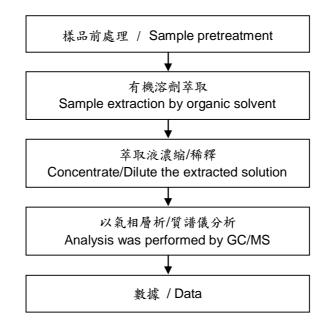
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多氯奈分析流程圖 / PCNs analytical flow chart

■ 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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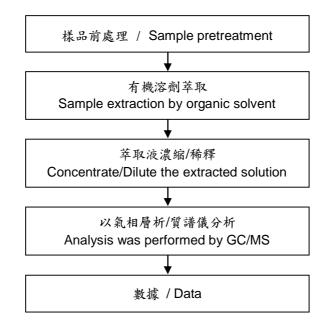
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多氯聯苯分析流程圖 / PCBs analytical flow chart

- 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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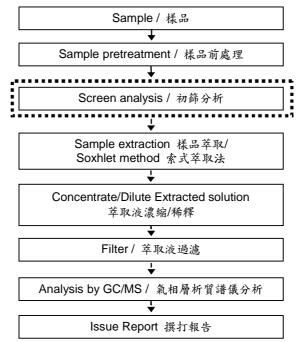
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong

測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

初次測試程序 / First testing process -選擇性篩檢程序 / Optional screen process ••••••

確認程序 / Confirmation process - - - →



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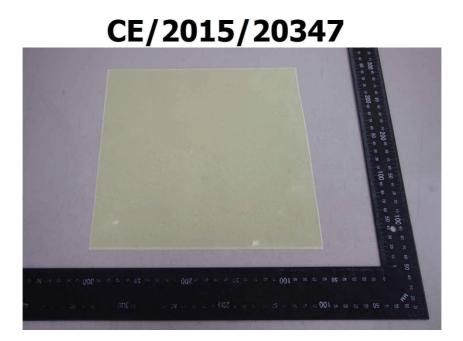
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)



** 報告結尾 (End of Report) **



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU) (廣東省東州市博羅縣石灣鎮衣石士道 / VONGSHL BOULEVARD SHUWAN TOWN BOLIO COUNTY HUIZHOU CITY GUANG DONG)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)
樣品名稱(Sample Description)	: LAMINATE (UL E98983)
樣品型號(Style/Item No.)	: UV BLOCK FR-4-86/NP-140TL
買主/訂單號碼(Buyer/Order No.)	: 5106236
收件日期(Sample Receiving Date)	: 2015/02/02
測試期間(Testing Period)	: 2015/02/02 TO 2015/02/16

測試需求(Test Requested):

- (1) 依據客户要求,參考RoHS 2011/65/EU Annex II 指令測試鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
- (2) 依據客户要求, 參考 WTO/TBT 通報 G/TBT/N/EU/256, 檢測 DBP, BBP, DEHP, DIBP. (As specified by client, with reference to G/TBT/N/EU/256 of WTO/TBT to test DBP, BBP, DEHP, DIBP.)

(3)依據客户要求,檢測 PAHs 及其他測項. / As specified by client, to test PAHs and other item(s).

测试结果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) : 請見下一頁 (Please refer to next pages).

Troy Chang Manager Signed for and on Dehalf o SGS TAIWAN LTD Chemical Laboratory – Taipei



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結論(Conclusion)

:

- (1) 根據客户所提供的樣品,其鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚的測試結果符合 RoHS 指令 2011/65/EU Annex II之要求 (Based on the performed tests on submitted samples, the test result(s) of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)
 - (2) 根據客户所提供的樣品,其 DBP, BBP, DEHP, DIBP 之測試結果符合 WTO/TBT 通報 G/TBT/N/EU/256 之限值要求 (Based on the performed tests on submitted samples, the test results of DBP, BBP, DEHP, DIBP comply with the limits as set by G/TBT/N/EU/256 of WTO/TBT.)
 - (3) 根據客户所提供的樣品,其 PAHs 的測試結果符合德國ZLS的ZEK 01.4-08及其相關修訂文 件中的第1類PAHs要求 (Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 1) of ZEK 01.4-08 of German ZLS and its amendments.)



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<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 銅色板子 (COPPER COLORED SHEET)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)	限值 (Limit)
鎬 / Cadmium (Cd)	mg/kg	参考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With	2	No.1 n.d.	100
		reference to IEC 62321-5: 2013 and performed by ICP-AES.			
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	9	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV- VIS.	2	n.d.	1000
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.	-
氧化鈹 / Beryllium oxide (BeO)***	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP- AES.***	-	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
种 / Arsenic (As) (※ 2)	mg/kg	参考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	_
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 1327-53-3)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	_
绨 / Antimony (Sb)	mg/kg	参考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.	-
硼 / Boron (B) (※2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-
硼酸 / Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	mg/kg	参考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267- 73-1) (*2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	-	n.d.	-
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	參考Global SOP RSTS-E&E-121方法, 以液相層析/質譜儀分析. / With reference to Global SOP RSTS-E&E- 121. Analysis was performed by LC/MS.	10	n.d.	_
雙酚 A / Bisphenol A (CAS No.: 80- 05-7)	mg/kg	參考RSTS-HL-229-1方法,以超高效能 液相層析串聯質譜儀檢測./With reference to RSTS-HL-229-1 method. Analysis was performed by UPLC- MSMS.	1	n.d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法,以液相 層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法,以液相 層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
2- (3', 5'-二叔丁基-2'-羟基苯基)苯並 三氮唑 / 2- (3,5-di-tert-butyl-2- hydroxyphenyl)-2H-benzotriazole (CAS No.: 3846-71-7)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測之. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
二氯化鈷 / Cobalt dichloride (CAS No.: 7646-79-9)	mg/kg	参考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)	限值 (Limit)
(1000 100m)	(0110)	((MDL)	No.1	· · ·
多氯聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	-
多氯奈 / Polychlorinated Naphthalene (PCNs)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
多氣三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	-
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	100	n.d.	-
甲醛 / Formaldehyde (CAS No.: 50-00- 0)	mg/kg	參考ISO 17226-1(2008)方法,以高效 液相層析儀/二極體陣列偵測器檢測./ With reference to ISO 17226- 1(2008). Analysis was performed by HPLC/DAD.	3	n.d.	-
聚氯乙烯 / PVC	* *	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative	-
六氟化硫 / Sulfur Hexafluoride (SF6) (CAS No.: 2551-62-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n.d.	-
磷酸三(2-氯乙基)酯 / Tris (2- chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(1-氯-2-丙基)酯 / Tris(1- chloro-2-propyl) phosphate (TCPP) (CAS No.: 13674-84-5)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(1,3-二氯異丙基)酯 / Tris(1,3- dichloro-2-propyl)phosphate (TDCPP) (CAS No.: 13674-87-8)	mg/kg	参考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(二甲苯)酯 / Trixylyl phosphate (TXP) (CAS No.: 25155-23- 1)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	25	n.d.	-
六溴環十二烷及所有主要被辨别出的異構 物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法,以氣相層 析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
對特辛基苯酚 / 辛基酚 / 4-(1,1,3,3- tetramethylbutyl) phenol, (4-tert- Octylphenol) (CAS No.: 140-66-9)	mg/kg	參考US EPA 3550C方法,以液相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by LC/MS.	10	n.d.	-
双(2-甲氧基乙基)醚 / Bis(2- methoxyethyl) ether (CAS No.: 111- 96-6)	mg/kg	参考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
N,N-二甲基乙醯胺 / N,N- dimethylacetamide (DMAC) (CAS No.: 127-19-5)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣 相層析儀/質譜儀檢測之./With reference to IEC 62321-8	50	n.d.	1000
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	mg/kg	(111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg		50	n.d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117-84-0)	mg/kg]	50	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	参考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯 ,富C7 / DIHP (1,2- Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 / DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	_
鄰苯二甲酸二 (2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	%	参考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二異戊酯 / DIPP (DiisopentylPhthalate) (CAS No.: 605-50-5)	%	参考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
支鏈和直鏈1,2-苯二羧二戊酯 / 1,2- Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	%	参考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	_
鄰苯二甲酸正戊基異戊基酯 / N-pentyl- isopentylphthalate	%	參考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二戊酯 / DPP (Di-pentyl phthalate) (CAS No.: 131–18–0)	%	參考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
鄰苯二甲酸二正戊酯 / DNPP (Di-n- pentyl phthalate) (CAS No.: 131-18- 0)	%	參考EN 14372,以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
乙二醇二甲醚 / Ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
過氯酸鹽 / Perchlorate (CAS No.: 14797-73-0)	mg/kg	以離子層析儀檢測. / Analysis was performed by IC.	0.006	n.d.	-
溴甲烷 / Bromomethane (CAS No.: 74- 83-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
鹵素 / Halogen					
鹵素(氯)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	339	-
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	/1	參考BS EN 14582:2007,以離子層析儀 分析. / With reference to BS EN	50	46900	-
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	14582:2007. Analysis was performed by IC.	50	906	-
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	-



測試報告 **Test Report**

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)	限值 (Limit)
(Test Trems)	(Unit)	(Method)	(MDL)	No.1	
多溴聯苯總和 / Sum of PBBs			-	n.d.	1000
一溴聯苯 / Monobromobiphenyl			5	n.d.	-
二溴聯苯 / Dibromobiphenyl			5	n.d.	-
三溴聯苯 / Tribromobiphenyl			5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	-
五溴聯苯 / Pentabromobiphenyl			5	n.d.	-
六溴聯苯 / Hexabromobiphenyl			5	n.d.	-
七溴聯苯 / Heptabromobiphenyl			5	n.d.	-
八溴聯苯 / Octabromobiphenyl			5	n.d.	-
九溴聯苯 / Nonabromobiphenyl		参考IEC 62321: 2008方法,以氣相層	5	n.d.	-
十溴聯苯 / Decabromobiphenyl		析/質譜儀檢測. / With reference to	5	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	IEC 62321: 2008 and performed by	-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether		GC/MS.	5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	1		5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	1		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	1		5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
有機錫 / Organic-tin compounds					
三丁基錫 / Tributyl Tin (TBT)			0.03	n.d.	-
三苯基錫 / Triphenyl Tin (TphT)		参考ISO 17353方法,以氣相層析儀/火	0.03	n.d.	-
二丁基錫 / Dibutyl Tin (DBT)	/1	焰光度偵測器檢測. / With reference	0.03	n.d.	-
二辛基錫 / Dioctyl Tin (DOT)	mg/kg	to ISO 17353. Analysis was	0.03	n.d.	-
三丁基錫氧化物 / Tributyl Tin Oxide (TBTO)*** (CAS No.: 56-35-9)		performed by GC/FPD.	-	n.d.	-
偶氮 (AZO)					
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
2): 聯苯胺 / BENZIDINE (CAS No.: 92- 87-5)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
3): 4-氯鄰甲苯胺 / 4-CHLORO-O- TOLUIDINE (CAS No.: 95-69-2)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
4): 2-萘 族 / 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
5): 鄰氨基二甲基偶氮 / O- AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
6): 對硝基鄰甲苯胺 / 2-AMINO-4- NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
8): 4-甲氧基-間苯二胺 / 2,4- DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
9): 4,4'-二氨基二苯甲烷 / 4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
10): 3,3'-二氯聯苯胺 / 3,3'- DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
11): 3,3'-二甲氧基聯苯胺 / 3,3'- DIMETHOXYBENZIDINE (CAS No.: 119-90- 4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
12): 3,3'-二甲基聯苯胺 / 3,3'- DIMETHYLBENZIDINE (CAS No.: 119-93- 7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_
14): 2-甲氧基-5-甲基聯苯 / P- CRESIDINE (2-METHOXY-5- METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
15): 4,4'-亞甲基雙(氯苯胺)/ 4,4'- METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE (CAS No.: 139-65-1)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
20): 2,4,5-三甲基苯胺 / 2,4,5- TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_
22): 對氨基偶氮苯 / 4- AMINOAZOBENZENE(CAS No.: 60-09-3)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	_
氫氟碳化物 / HFCs (Hydrofluorocarbon)					
氫氟碳化物(HFC)-23(CHF3)(CAS No.: 75-46-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氫氟碳化物 (HFC)-32 (CH2F2) (CAS No.: 75-10-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物(HFC)-41(CH3F)(CAS No.: 593-53-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-43-10mee (C5H2F10)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物(HFC)-125(C2HF5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-134 (C2H2F4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-134a (CH2FCF3) (CAS No.: 811-97-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-143 (CH3F3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氫氟碳化物 (HFC)-143a (CH3F3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物(HFC)-152a(C2H4F2)(CAS No.: 75-37-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-227ea (C3HF7) (CAS No.: 431-89-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-236fa (C3H2F6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-236ea (C3H2F6) (CAS No.: 431-63-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-245ca (C3H3F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物(HFC)-245fa(C3H3F5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氫氟碳化物 (HFC)-365mfc (C4H5F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
全氟碳化物 / PFCs (Perfluorocarbon)					
四氟甲烷 / F14 (CAS No.: 75-73-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
六氟乙烷 / Fluorocarbon 116 (CAS No.: 76-16-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
八氟丙烷 / Freon 218 (CAS No.: 76- 19-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
十氟丁烷 / Decafluorobutane (CAS No.: 355-25-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
八氟環丁烷 / Freon C318 (CAS No.: 115-25-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
全氟-1-丁烯 / Perfluor-1-butene (CAS No.: 357-26-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
全氟異丁烯 / perfluorisobutene (CAS No.: 382-21-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
1,4-二氫八氟丁烷 / 1,4- dihydrooctafluorobutane (CAS No.: 377-36-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
2-全氟甲基丁烷 / nonafluor-2- (trifluoromethyl)butane (CAS No.: 594-91-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟戊烷 / perfluoro-n-pentane (CAS No.: 678-26-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2-全氟甲基戊烷 / 2- perfluoromethylpentane (CAS No.: 355-04-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
全氟己烷 / perfluorohexane (CAS No.: 355-42-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯碳化物 / CFCs (Chlorofluorocarbons)					
Group I					
氟氯碳化物 (Chlorofluorocarbon)-11 (CAS No.: 75-69-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-12 (CAS No.: 75-71-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氟碳化物 (Chlorofluorocarbon)-113 (CAS No.: 76-13-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-114 (CAS No.: 76-14-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-115 (CAS No.: 76-15-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Group III					
氟氯碳化物 (Chlorofluorocarbon)-13 (CAS No.: 75-72-9)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯碳化物 (Chlorofluorocarbon)-111 (CAS No.: 354-56-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-112 (CAS No.: 76-12-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-211 (CAS No.: 422-78-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-212 (CAS No.: 3182-26-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-213 (CAS No.: 2354-06-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-214 (CAS No.: 29255-31-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-215 (CAS No.: 4259-43-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯碳化物 (Chlorofluorocarbon)-216 (CAS No.: 661-97-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯碳化物 (Chlorofluorocarbon)-217 (CAS No.: 422-86-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 / HCFCs (Hydrochlorofluorocarbons)					
氟氯氫碳化物 (HCFC)-21 (CAS No.: 75- 43-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-22 (CAS No.: 75- 45-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 (HCFC)-31 (CAS No.: 593-70-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 (HCFC)-121 (CAS No.: 354-14-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氟氫碳化物 (HCFC)-122 (CAS No.: 354-21-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物(HCFC)-123(CAS No.: 306-83-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-124 (CAS No.: 2837-89-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-131 (CAS No.: 359-28-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-132b (CAS No.: 1649-08-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-133a (CAS No.: 75-88-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-141b (CAS No.: 1717-00-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氟氫碳化物 (HCFC)-142b (CAS No.: 75-68-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-221 (CAS No.: 422-26-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-222 (CAS No.: 422-49-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-223 (CAS No.: 422-52-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-224 (CAS No.: 422-54-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-225ca (CAS No.: 422-56-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-225cb (CAS No.: 507-55-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氟氫碳化物 (HCFC)-226 (CAS No.: 431-87-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-231 (CAS No.: 421-94-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-232 (CAS No.: 460-89-9)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-233 (CAS No.: 7125-84-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-234 (CAS No.: 425-94-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-235 (CAS No.: 460-92-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	I
氟氯氫碳化物 (HCFC)-241 (CAS No.: 666-27-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯氫碳化物 (HCFC)-242 (CAS No.: 460-63-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
氟氯氫碳化物 (HCFC)-243 (CAS No.: 460-69-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-244	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-251 (CAS No.: 421-41-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-252 (CAS No.: 819-00-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-253 (CAS No.: 460-35-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-261 (CAS No.: 420-97-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氟氯氫碳化物 (HCFC)-262 (CAS No.: 421-02-03)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-271 (CAS No.: 430-55-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍(Halons) 海龍(Halon)-1211(CAS No.: 353-59-		タ エIIC FDA 5091 古計 以気相局托/顔	1		
海龍 (Halon)-1211 (CAS No.: 353-59- 3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halon)-1301 (CAS No.: 75-63-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halon)-2402 (CAS No.: 124-73- 2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
不完全鹵化氟溴化物 / HBFCs (Hydrobromofluorocarbons)					
不完全鹵化氟溴化物(HBFC)-21B2 (CHFBr2)(CAS No.: 1868-53-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物(HBFC)-22B1 (CHF2Br)(CAS No.: 1511-62-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物(HBFC)-31B1 (CH2FBr) (CAS No.: 373-52-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-121B4 (C2HFBr4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-122B3 (C2HF2Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
不完全鹵化氟溴化物 (HBFC)-123B2 (C2HF3Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_



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不完全鹵化氟溴化物 (HBFC)-124B1 (C2HF4Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-131B3 (C2H2FBr3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-132B2 (C2H2F2Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-133B1 (C2H2F3Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-141B2 (C2H3FBr2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-142B1 (C2H3F2Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-151B1 (C2H4FBr)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氟溴化物 (HBFC)-221B6 (C3HFBr6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	1
不完全鹵化氟溴化物 (HBFC)-222B5 (C3HF2Br5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-223B4 (C3HF3Br4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-224B3 (C3HF4Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-225B2 (C3HF5Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-226B1 (C3HF6Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-231B5 (C3H2FBr5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
不完全鹵化氟溴化物 (HBFC)-232B4 (C3H2F2Br4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-233B3 (C3H2F3Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-234B2 (C3H2F4Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-235B1 (C3H2F5Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-241B4 (C3H3FBr4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-242B3 (C3H3F2Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-243B2 (C3H3F3Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
不完全鹵化氟溴化物 (HBFC)-244B1 (C3H3F4Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-251B3 (C3H4FBr3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-252B2 (C3H4F2Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-253B1 (C3H4F3Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-261B2 (C3H5FBr2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-262B1 (C3H5F2Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-271B1 (C3H6FBr)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氯化碳氫化物 / CHCs (Chlorinate hydrocarbon)					
1,1,1,2-四氯乙烷 / 1,1,1,2- Tetrachloroethane (CAS No.: 630-20- 6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,1-三氯乙烷 / 1,1,1- Trichloroethane (CAS No.: 71-55-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,2,2-四氯乙烷 / 1,1,2,2- Tetrachloroethane (CAS No.: 79-34-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,2-三氯乙烷 / 1,1,2- Trichloroethane (CAS No.: 79-00-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1-二氯乙烷 / 1,1-Dichloroethane (CAS No.: 75-34-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1-二氯乙烯 / 1,1-Dichloroethene (CAS No.: 75-35-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
1,1-二氯丙烯 / 1,1-Dichloropropene (CAS No.: 563-58-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2,3-三氯丙烷 / 1,2,3- Trichloropropane (CAS No.: 96-18-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2-二氯丙烷 / 1,2-Dichloropropane (CAS No.: 78-87-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,3-二氯丙烷 / 1,3-Dichloropropane (CAS No.: 142-28-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2,2-二氯丙烷 / 2,2-Dichloropropane (CAS No.: 594-20-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
四氯甲烷(四氯化碳)/ Carbon tetrachloride (CAS No.: 56-23-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氯乙烷 / Chloroethane (CAS No.: 75- 00-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氯仿 / Chloroform (CAS No.: 67-66-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氯甲烷 / Chloromethane (CAS No.: 74- 87-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
順-1,2-二氯乙烯 / cis-1,2- Dichloroethene (CAS No.: 156-59-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
順-1,3-二氯丙烯 / cis-1,3- Dichloropropene (CAS No.: 10061-01- 5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
六氯丁二烯 / Hexachlorobutadiene (CAS No.: 87-68-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
二氯甲烷 / Dichloromethane (CAS No.: 75-09-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)	限値 (Limit)
四氯乙烯 / Tetrachloroethene (CAS No.: 127-18-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was	1	No.1 n.d.	-
反-1,2-二氣乙烯 / trans-1,2- Dichloroethene (CAS No.: 156-60-5)	mg/kg	performed by GC/MS. 参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was	1	n.d.	-
反-1,3-二氯丙烯 / trans-1,3- Dichloropropene (CAS No.: 10061-02- 6)	mg/kg	performed by GC/MS. 参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
三氟乙烯 / Trichloroethylene (CAS No.: 79-01-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	_
石綿 / Asbestos					
陽起石綿 / Actinolite (CAS No.: 77536-66-4)			-	Negative	-
鐵石綿(褐石綿) / Amosite (CAS No.: 12172-73-5)		參考EPA 600/R-93/116 / 立體顯微鏡 (SM),分散染色式偏光顯微鏡 (DS-	-	Negative	-
斜方角閃石綿 / Anthophyllite (CAS No.: 77536-67-5)		PLM)及X光绕射光譜分析法 (XRD) / With reference to EPA 600/R-93/116	-	Negative	-
溫石綿(白石綿) / Chrysotile (CAS No.: 12001-29-5)	%	method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray	-	Negative	-
青石綿 / Crocidolite (CAS No.: 12001-28-4)			-	Negative	-
透閃石綿 / Tremolite (CAS No.: 77536-68-6)		Diffraction Spectrometer (XRD).	-	Negative	-



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多環芳香烴 / Polynuclear Aromatic					
Hydrocarbons (PAHs)					
苊 / Acenaphthene (CAS No.: 83-32-9)	mg/kg		0.2	n.d.	-
苊烯 / Acenaphthylene (CAS No.: 208-96- 8)	mg/kg		0.2	n.d.	-
蒽 / Anthracene (CAS No.: 120-12-7)	mg/kg		0.2	n.d.	-
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg		0.2	n.d.	-
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50- 32-8)	mg/kg		0.2	n.d.	-
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg		0.2	n.d.	-
苯駢芘 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg		0.2	n.d.	-
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg	參考ZLS standard ZEK 01.4-08方法,	0.2	n.d.	-
Chrysene (CAS No.: 218-01-9)	mg/kg	以氣相層析/質譜儀檢測./ With	0.2	n.d.	-
ニ苯聠蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	reference to ZLS standard ZEK 01.4–08 method. Analysis was	0.2	n.d.	-
苯駢芴 / Fluoranthene (CAS No.: 206-44- 0)	mg/kg	performed by GC/MS.	0.2	n.d.	-
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg		0.2	n.d.	-
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg		0.2	n.d.	-
萘 / Naphthalene (CAS No.: 91-20-3)	mg/kg		0.2	n.d.	-
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg	1	0.2	n.d.	-
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg	1	0.2	n.d.	-
苯(j)苯联芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n.d.	-
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	n.d.	-
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg]	-	n.d.	-



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備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格値)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 7. 石綿定性分析試驗範圍: <0.1%~100%,石綿鑑定的判定基準是以檢出含有石綿纖維為『Positive』,未檢出石綿纖維為 『Negative』 ∘ / Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
- 8. ***: 該物質是由三丁基錫, 砷, 硼或鈹各别之測試結果計算得知. 其MDL是針對三丁基錫, 砷, 硼或鈹之評估. (The substance was calculated by the test results of Tributyl Tin, Arsenic, Boron or Beryllium respectively. The MDL was evaluated for Tributyl Tin, Arsenic, Boron or Beryllium respectively.)
- 9. (*2): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作為代表(歐洲化學總署回信編號 Ref no.: INC 000000032519) / Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
- 10. (※2): 被萃取出的溶出硼/砷是以感應耦合電漿原子發射光譜儀檢測得之. / The extracted soluble Boron / Arsenic are detected by ICP-AES.
- 11. 參數換算表 / Parameter Conversion Table: Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
- 12. 鈹青銅是一種主要成份為鈹及銅的合金,當偵測不到總鈹含量時,亦表示不含鈹青銅. (Since beryllium copper is a metal alloy of copper and beryllium and the test result is n.d. for beryllium, we can have conclusion that the beryllium copper is n.d..)

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(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

<u>PAHs参考資料(Reference information):</u>

依據ZEK 01.4-08之要求:產品中最大值為

(Requirement of ZEK 01.4-08 : Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)	第3類 (Category 3)
	意圖放入嘴内的材料或與	可預見與皮膚接觸逾30秒	可預見與皮膚接觸短於30
	36個月以下的幼兒皮膚有	(長期與皮膚接觸),以及	秒(短期與皮膚接觸),以
	所接觸的玩具.	不屬於第1類的材料.	及不屬於第1類或第2類的
	(Material indented to	(Materials not falling	材料. (Materials not
	be put in the mouth or	under category 1 with	falling under category
	toys for children aged	foreseeable contact to	1 or 2 with foreseeable
	< 36 months with	skin for longer than 30	contact to skin for
	intended skin contact.)	seconds (long-term skin	less than 30 seconds
		contact).)	(short-term skin
			contact).)
苯駢(a)芘 Benzo[a]pyrene (mg/kg)	<mdl (<0.2)**<="" td=""><td>1</td><td>20</td></mdl>	1	20
18項PAH總濃度			
(Sum of 18 PAH)	<mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl>	10	200
(mg/kg)*			

<u>注意(Remark):</u>

* = PAH濃度大於0.2mg/kg時,則須計算PAH總濃度值.

(Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs.)

** = 最大濃度值超出等級一的限制,但在等級二的濃度限制值内時,可能需要確認測試材質是否適用於與食品或與口腔 黏膜接觸,並依照EN 1186 ff. and § 64 LFBG 80.30-1方法,針對特定PAH的遷移測試進行測試。遷移測試的結論需依 照食品規範評估。

(If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.)



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PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗 層材料中不得超過1µg/m2。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1 \mu g/m^2$.)

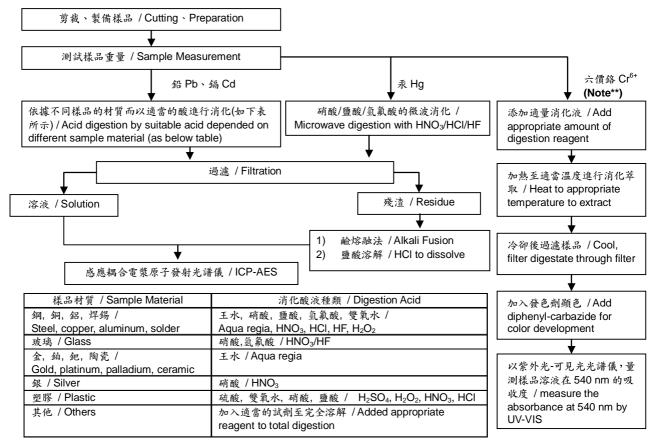


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- dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

(1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.

(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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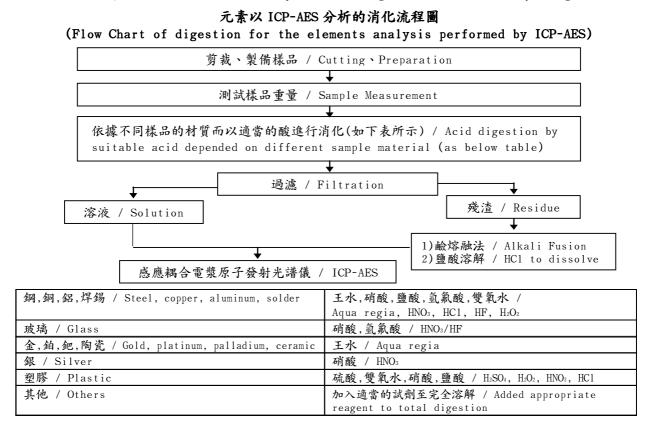
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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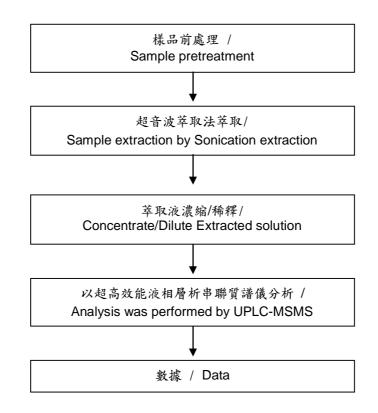
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雙酚A分析流程圖 / Bisphenol A analytical flow chart

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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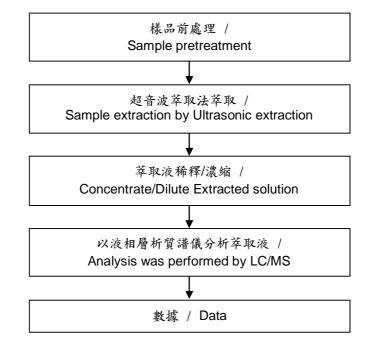
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四溴雙酚-A 分析流程圖 / TBBP-A analytical flow chart

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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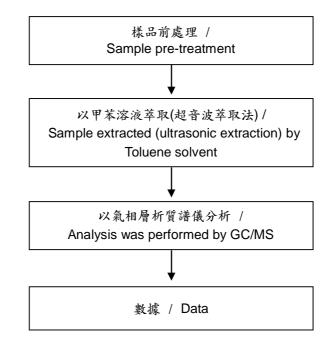
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多環芳香烴分析流程圖 / PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





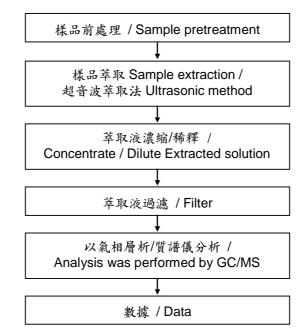
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乙二醇醚及其酯類分析流程圖 / Ethylene glycol ether analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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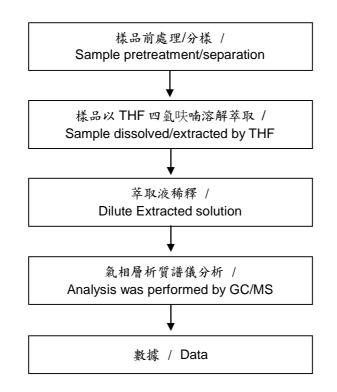
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員: 徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: IEC 62321-8】



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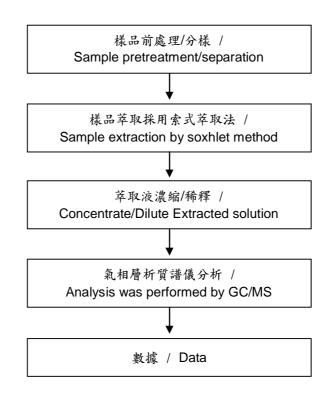
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: EN 14372】



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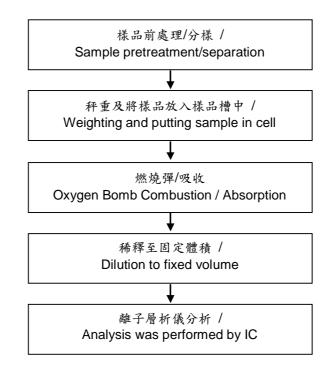
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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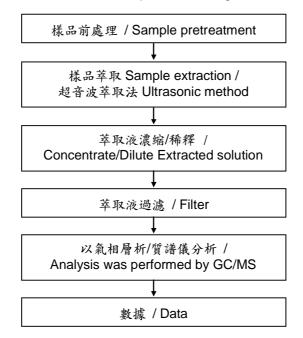
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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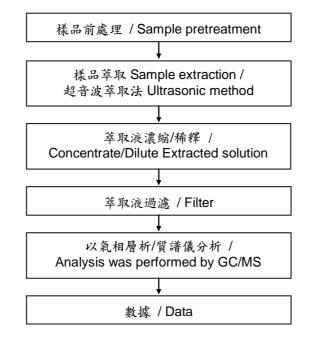
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富馬酸二甲酯分析流程圖 / Dimethyl Fumarate analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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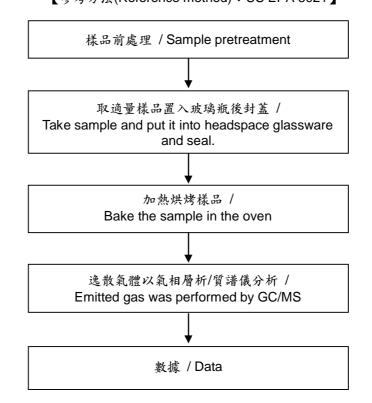
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揮發性有機化合物分析流程圖 / Analytical flow chart of volatile organic compounds (VOCs)

- 測試人員:吳椿景 / Name of the person who made measurement: Chun Wu
- 測試負責人:陳新智 / Name of the person in charge of measurement: Shinjyh Chen 【參考方法(Reference method): US EPA 5021】



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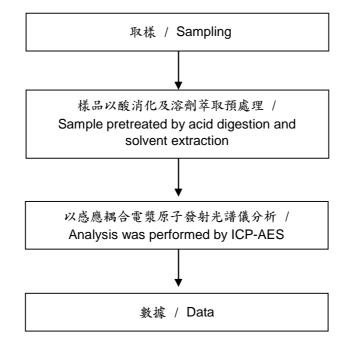
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二氯化鈷分析流程圖 / Analytical flow chart of Cobalt dichloride

- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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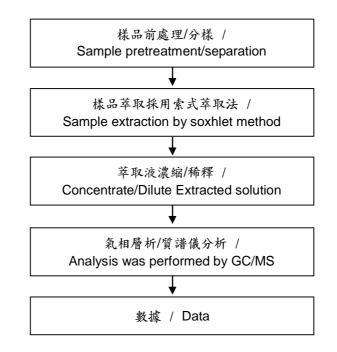
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苯並三唑類化合物分析流程圖 / Benzotriazole analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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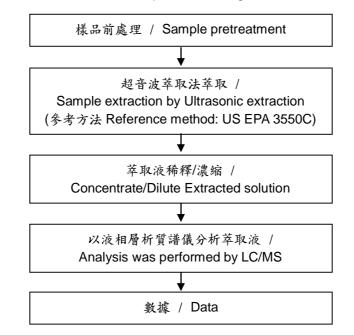
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全氯辛酸/全氯辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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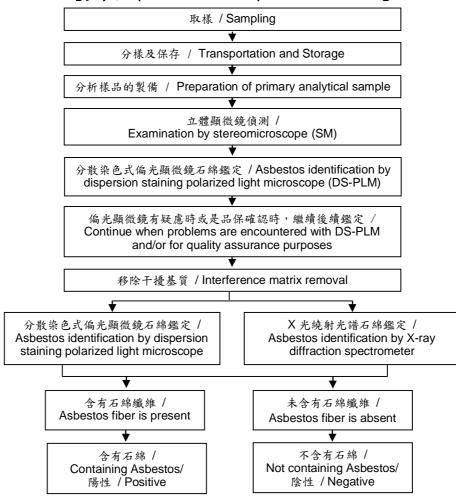
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石綿鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

- 測試人員:高鍵忠 / Name of the person who made measurement: Victor Kao
- 測試負責人:魏明芬 / Name of the person in charge of measurement: Wendy Wei

【参考方法(Reference method): EPA 600/R-93/116】



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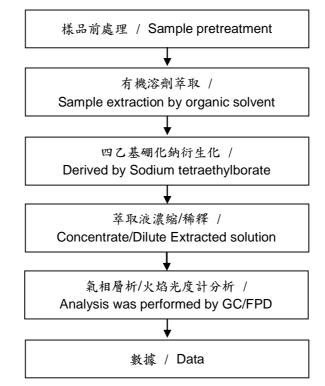
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有機錫分析流程圖 / Analytical flow chart of Organic-Tin content

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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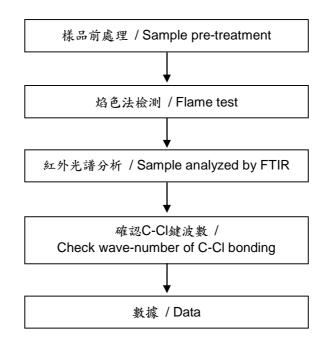
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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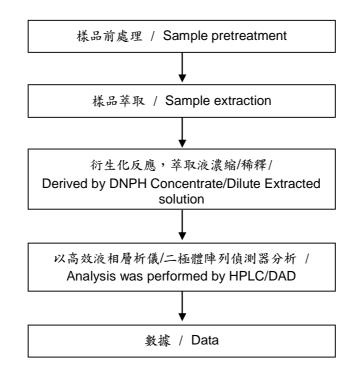
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甲醛分析流程圖 / Formaldehyde analytical flow chart

- 測試人員:涂雅苓 / Name of the person who made measurement: Yaling Tu
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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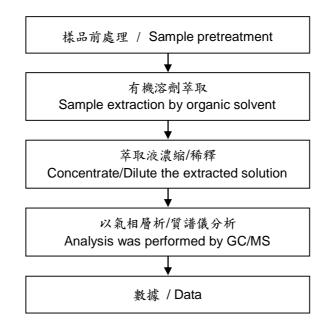
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氯化石蠟分析流程圖 / Chlorinated Paraffins analytical flow chart

- 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 ^{號碼(No.)}: CE/2015/20344 日期(Date): 2015/02/16 頁數(Page): 61 of 65 **Test Report**

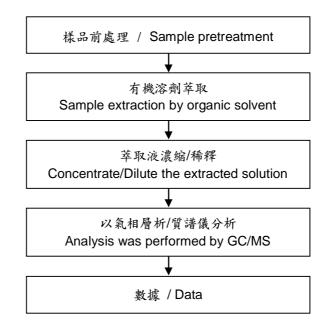
南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

多氯三聯苯分析流程圖 / PCTs analytical flow chart

■ 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 ^{號碼(No.)}: CE/2015/20344 日期(Date): 2015/02/16 頁數(Page): 62 of 65 **Test Report**

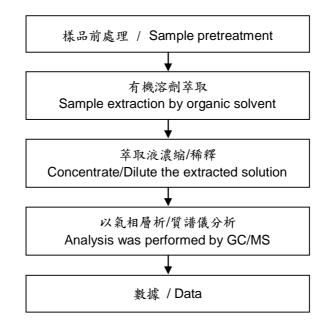
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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

多氯奈分析流程圖 / PCNs analytical flow chart

■ 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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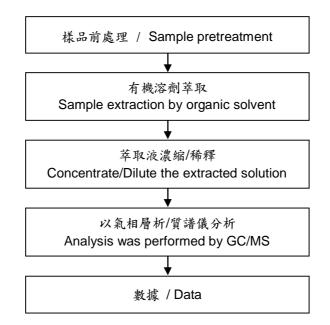
測試報告 ^{號碼(No.)}: CE/2015/20344 日期(Date): 2015/02/16 頁數(Page): 63 of 65 **Test Report**

南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

多氯聯苯分析流程圖 / PCBs analytical flow chart

- 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 ^{號碼(No.)}: CE/2015/20344 日期(Date): 2015/02/16 **Test Report**

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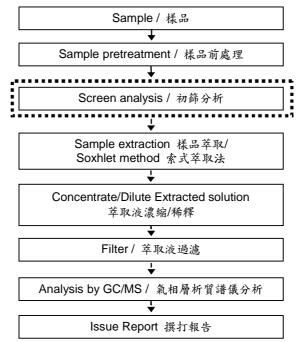
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

■ 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

初次測試程序 / First testing process →→ 選擇性篩檢程序 / Optional screen process •••••••

確認程序 / Confirmation process - - - →



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測試報告 ^{號碼(No.)}: CE/2015/20344 日期(Date): 2015/02/16 頁數(Page): 65 of 65 **Test Report**

南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)



** 報告結尾 (End of Report) **

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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By Sample Description		TAIWAN TAIYO INK CO., LTD. PHOTOIMAGEABLE SOLDER MASK
Style/Item No.	:	PSR-2000 LF02/CA-25 LF01
		UL:PSR-2000BK/CA-25BK
Color	:	GREEN
Sample Receiving Date	:	2014/03/20
Testing Period	:	2014/03/20 TO 2014/03/27

- **Test Requested** : (1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.
 - (2) As specified by client, to test PFOA, PFOS contents in the submitted sample.
- Test Method: Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Conclusion : (1) Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.



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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

Test Result(s)

PART NAME No.1 : GREEN INK

	11	Mathad	MDL	Result	Limit
Test Item(s)	Unit	Method		No.1	Linit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
Sum of PBBs			-	n.d.	1000
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl			5	n.d.	-
Tribromobiphenyl			5	n.d.	-
Tetrabromobiphenyl			5	n.d.	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.	-
Hexabromobiphenyl		2008 and performed by GC/MG.	5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	-
Nonabromobiphenyl			5	n.d.	-
Decabromobiphenyl			5	n.d.	-

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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

Test Item(s)	Unit	Method	MDL	Result	Limit
	Unit		MDL	No.1	
Sum of PBDEs			-	n.d.	1000
Monobromodiphenyl ether			5	n.d.	-
Dibromodiphenyl ether		With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.	-
Tribromodiphenyl ether			5	n.d.	-
Tetrabromodiphenyl ether			5	n.d.	-
Pentabromodiphenyl ether	mg/kg		5	n.d.	-
Hexabromodiphenyl ether			5	n.d.	-
Heptabromodiphenyl ether			5	n.d.	-
Octabromodiphenyl ether			5	n.d.	-
Nonabromodiphenyl ether			5	n.d.	-
Decabromodiphenyl ether			5	n.d.	-

Note :

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- MDL = Method Detection Limit
- 4. " " = Not Regulated

PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

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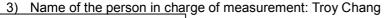
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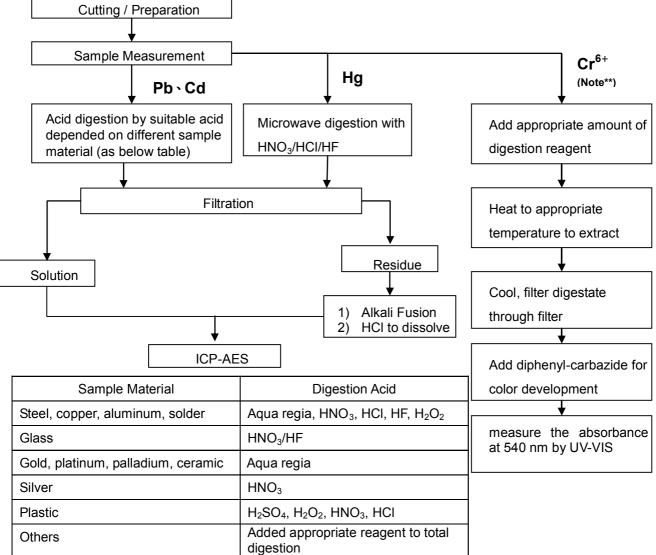
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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang





Note**: (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 °C.
(2) For metallic material, add pure water and heat to boiling.

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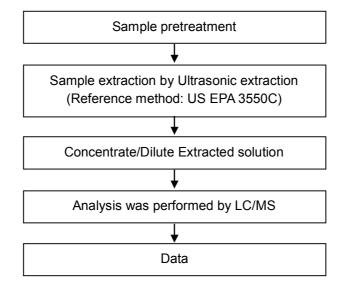
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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

PFOA/PFOS analytical flow chart of Ultrasonic extraction (LC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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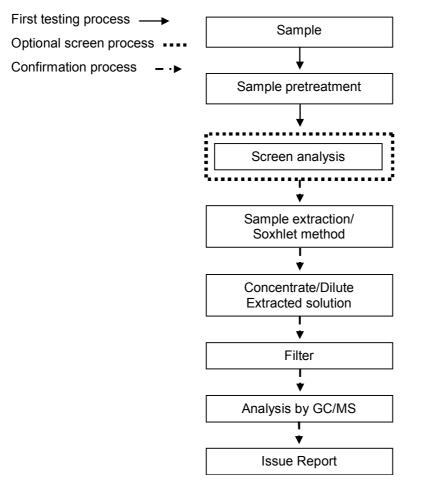
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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

* The tested sample / part is marked by an arrow if it's shown on the photo. *



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Test Report

柔洋股份有限公司 LA MIEUX PRODUCTS CO., LTD. 新北市汐止區新台五路一段79號4樓之4 4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

以下測試樣品係由申請廠商所提供 behalf of the applicant as):	確認 (The following sample(s) was/were submitted and identified by/c	n
送樣廠商(Sample Submitted By)	柔洋股份有限公司(LA MIEUX PRODUCTS CO., LTD.)	
樣品名稱(Sample Description)	THERMELT ADHESIVE	
樣品型號(Style/Item No.)	THERMELT 867B	
收件日期(Sample Receiving Date)	2014/02/07	
測試期間(Testing Period)	2014/02/07 TO 2014/02/14	
		====

测试结果(Test Results) : 請見下一頁 (Please refer to next pages).



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號碼(No.): CE/2014/20824A 日期(Date): 2014/02/14 頁數(Page): 2 of 9

Test Report

柔洋股份有限公司 LA MIEUX PRODUCTS CO., LTD. 新北市汐止區新台五路一段79號4樓之4 4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 黑色塑膠粒 (BLACK PLASTIC PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
六溴環十二烷及所有主要被辨别出的 異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法,以氣相層析/質 譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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柔洋股份有限公司

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Test Report

LA MIEUX PRODUCTS CO., LTD.

新北市汐止區新台五路一段79號4樓之4

4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372,以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%	參考EN 14372,以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%	參考EN 14372,以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117- 84-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	參考EN 14372,以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n.d.
一溴聯苯 / Monobromobiphenyl	mg/kg	Ĭ	5	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg	1	5	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg	參考IEC 62321:2008方法,以氣相層析/質	5	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg	譜儀檢測. / With reference to IEC	5	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg	62321: 2008 and performed by GC/MS.	5	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg	1	5	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg	1 [5	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg	1 1	5	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg	1	5	n.d.

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Test Report

柔洋股份有限公司

LA MIEUX PRODUCTS CO., LTD.

新北市汐止區新台五路一段79號4樓之4

4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg	參考IEC 62321: 2008方法,以氣相層析/質 譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)

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測試報告 Test Report

號碼(No.): CE/2014/20824A 日期(Date): 2014/02/14 頁數(Page): 5 of 9

柔洋股份有限公司

LA MIEUX PRODUCTS CO., LTD.

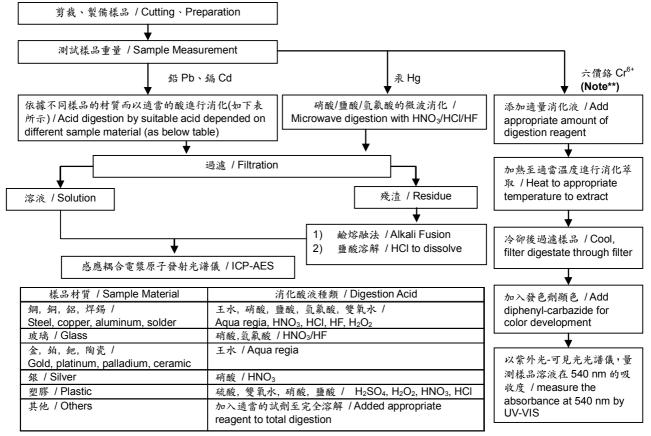
新北市汐止區新台五路一段79號4樓之4

4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

1) 根據以下的流程圖之條件,樣品已完全溶解。(六價錄測試方法除外) / These samples were

dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
- (2) 針對金屬材料加入純水,加熱至沸腾萃取. / For metallic material, add pure water and heat to boiling.

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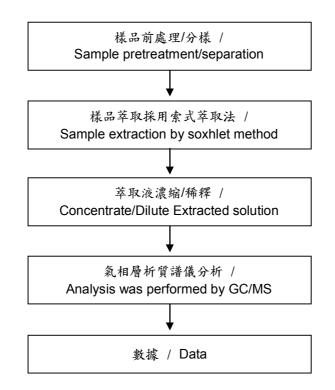
Test Report

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可塑劑分析流程圖 / Analytical flow chart of phthalate content

■ 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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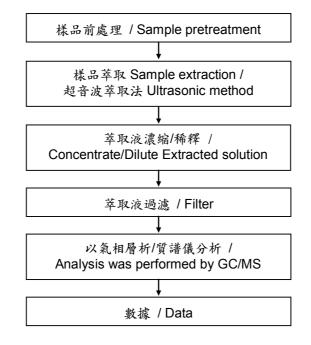
Test Report

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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

■ 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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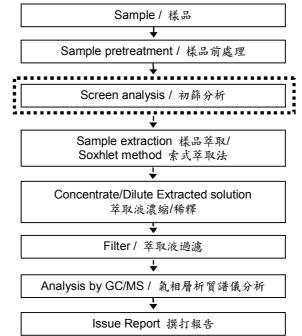
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang 初次測試程序 / First testing process →
 選擇性篩檢程序 / Optional screen process ••••••
 確認程序 / Confirmation process -•••



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Test Report

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** 報告結尾 (End of Report) **

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No. CANEC1503027705

Date: 16 Mar 2015

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DING FENG PLASTICS METAL FACTORY

CHANG HSIANG VILLAGE, HENGLI TOWN, DONGGUAN CITY, GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PVC plastic grains

SGS Job No. :	CP15-009381 - SZ
Client Ref. Info. :	PVC Plastic grains
	BLACK/WHITE/GRAY
Date of Sample Received :	09 Mar 2015
Testing Period :	09 Mar 2015 - 13 Mar 2015
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Almery

Almay Gao Approved Signatory



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No. CANEC1503027705

Date: 16 Mar 2015

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-030277.003	Black plastic grains+White plastic grains+Gray plastic grains

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Elementary Analysis & Flame Retardants

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES. (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis. IEC 63231:2008 determination of DPPs and DPDEs by CC MS

(5)With reference	to IEC 62321:2008,	determination of F	PBBS and PBDI	ES by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>003</u>
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	mg/kg	2	ND
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND



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中国·广州·经济技术开发区科学城科珠路198号



Test Report	No. CANEC1503027705	Date: 7	16 Mar 2015	Page 3 of 7
<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Dibromodiphenyl ether	mg/kg	5	ND	
Tribromodiphenyl ether	mg/kg	5	ND	
Tetrabromodiphenyl ether	mg/kg	5	ND	
Pentabromodiphenyl ether	mg/kg	5	ND	
Hexabromodiphenyl ether	mg/kg	5	ND	
Heptabromodiphenyl ether	mg/kg	5	ND	
Octabromodiphenyl ether	mg/kg	5	ND	
Nonabromodiphenyl ether	mg/kg	5	ND	
Decabromodiphenyl ether	mg/kg	5	ND	

Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	0.007
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND

Notes :

Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:

(1) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

(2) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Disobutyl Phthalates (DIBP) have been adopted in the draft of Commission Delegated Directive amending Annex II to Directive 2011/65/EU of the European Parliament, and the regulatory limit of each restricted substances should be 0.1%.



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Remark1: Results shown are of the total weight of mixed samples.

Remark2: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.



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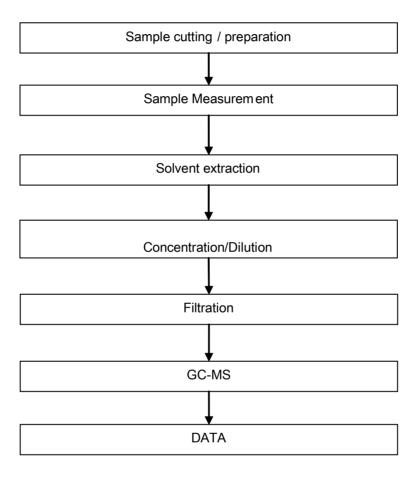
Page 5 of 7

ATTACHMENTS

Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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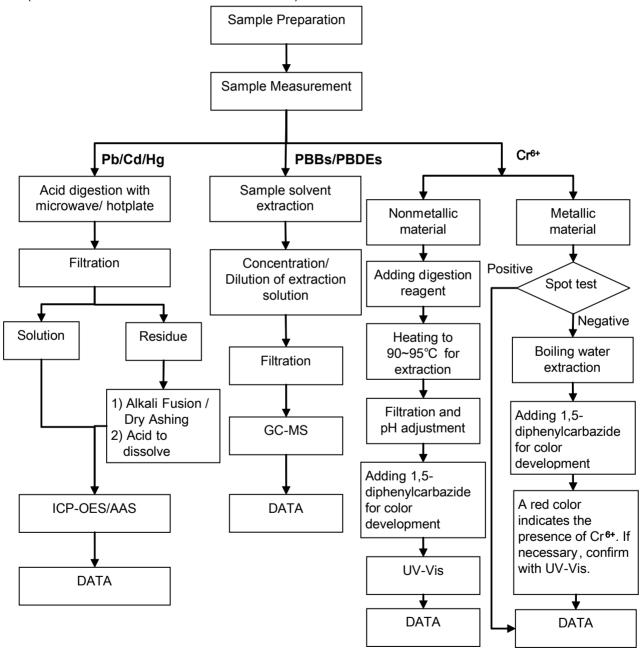
Date: 16 Mar 2015

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).





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Sample photo:



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No. CANEC1503027707

Date: 16 Mar 2015

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DING FENG PLASTICS METAL FACTORY

CHANG HSIANG VILLAGE, HENGLI TOWN, DONGGUAN CITY, GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PE plastic grains

SGS Job No. :	CP15-009381 - SZ
Client Ref. Info. :	PE Plastic grains
	TRANSPARENT
Date of Sample Received :	09 Mar 2015
Testing Period :	09 Mar 2015 - 13 Mar 2015
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Almery

Almay Gao Approved Signatory



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Date: 16 Mar 2015

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-030277.004	White plastic grains

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Elementary Analysis & Flame Retardants

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
(5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS

	.521.2000, ueteri	mation o	r FDDS anu r	-DDES by C	JC-1013.
<u>_</u>		Lloit		001	

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	mg/kg	2	ND
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND



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Test Report	No. CANEC1503027707	Date:	16 Mar 2015	Page 3 of 6
<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	
Dibromodiphenyl ether	mg/kg	5	ND	
Tribromodiphenyl ether	mg/kg	5	ND	
Tetrabromodiphenyl ether	mg/kg	5	ND	
Pentabromodiphenyl ether	mg/kg	5	ND	
Hexabromodiphenyl ether	mg/kg	5	ND	
Heptabromodiphenyl ether	mg/kg	5	ND	
Octabromodiphenyl ether	mg/kg	5	ND	
Nonabromodiphenyl ether	mg/kg	5	ND	
Decabromodiphenyl ether	mg/kg	5	ND	

Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>004</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND

Notes :

Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:

(1) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

(2) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Disobutyl Phthalates (DIBP) have been adopted in the draft of Commission Delegated Directive amending Annex II to Directive 2011/65/EU of the European Parliament, and the regulatory limit of each restricted substances should be 0.1%.



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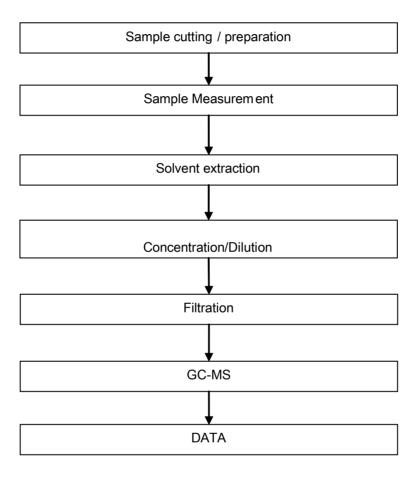
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ATTACHMENTS

Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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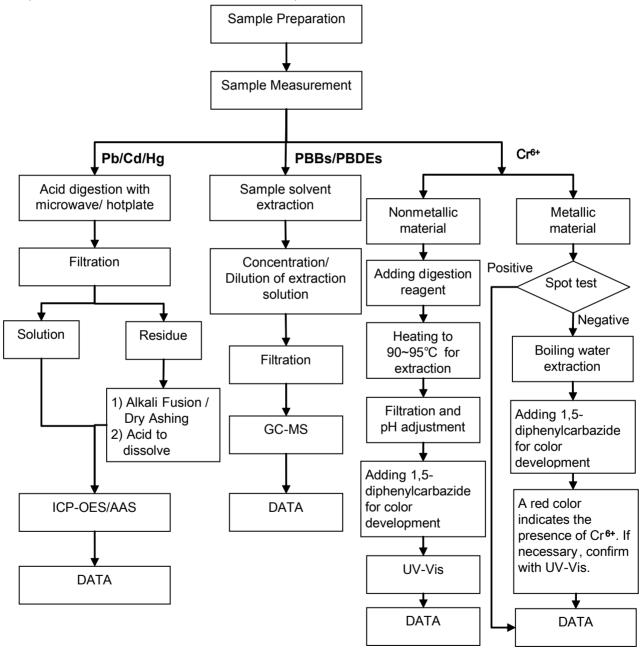
Date: 16 Mar 2015

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).





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Date: 05 May 2015

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TAI FA PLASTICS PIGMENT CO., LTD

CHANG FA CHEMICAL FIBER CO., LTD NO.9, SHAOBAI ROAD, XINTANG TOWN, ZENGCHENG CITY, GUANGZHOU, GUANG DONG P.R. CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : BLACK MASTER BATCH

SGS Job No. :	CP15-022863 - GZ
Date of Sample Received :	28 Apr 2015
Testing Period :	28 Apr 2015 - 05 May 2015
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Echo

Echo Yeung Approved Signatory



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No. CANEC1506705903

Date: 05 May 2015

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Test Results :

Test Part Description :

Specimen No. SGS Sample ID		Description
SN1	CAN15-067059.003	Black master batch

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES. (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	28
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC15067059	No. CANEC1506705903			Page 3
<u>Test Item(s)</u>	Limit	<u>Unit</u>	MDL	<u>003</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Hexabromocyclododecane (HBCDD)

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Phthalate

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>003</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Dependental Detector (DDD)	0F CO 7	0/(1+1)	0.002	
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate	117-81-7	%(w/w)	0.003	ND
(DEHP)				
Dischutzel Dhth slats (DIDD)	04 CO F	0((()	0.000	
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND

Notes :



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No. CANEC1506705903

Date: 05 May 2015

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Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:

(1) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

(2) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Disobutyl Phthalates (DIBP) have been adopted in the draft of Commission Delegated Directive amending Annex II to Directive 2011/65/EU of the European Parliament, and the regulatory limit of each restricted substances should be 0.1%.



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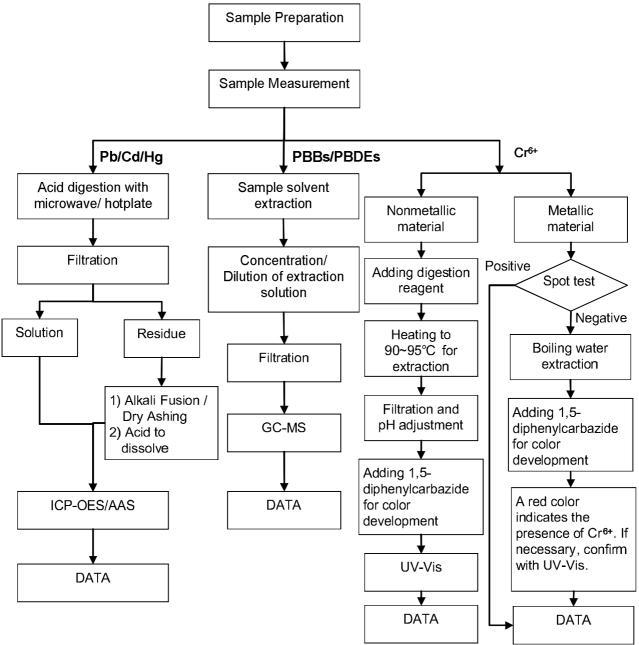
Date: 05 May 2015

Page 5 of 8

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).





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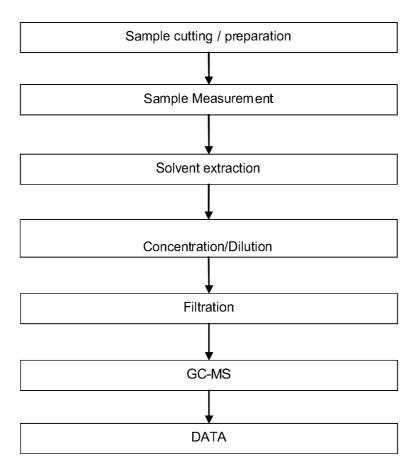
Page 6 of 8

ATTACHMENTS

Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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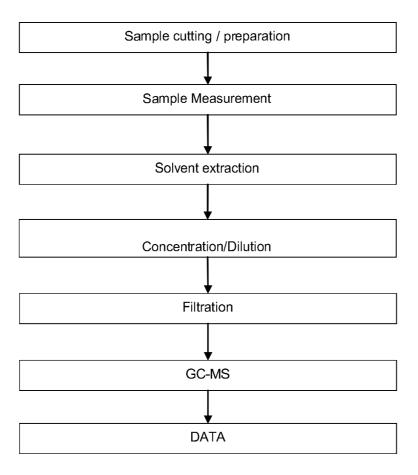
Page 7 of 8

ATTACHMENTS

HBCDD Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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No. CANEC1506705903

Date: 05 May 2015

Page 8 of 8

Sample photo:



SGS authenticate the photo on original report only

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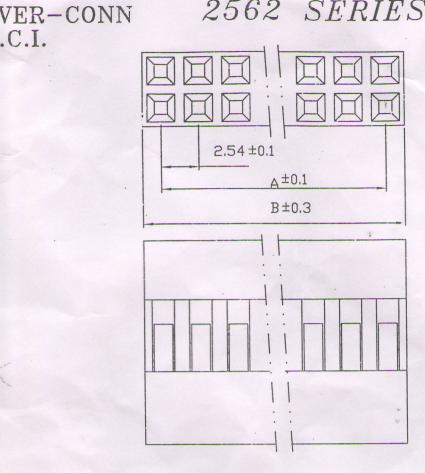


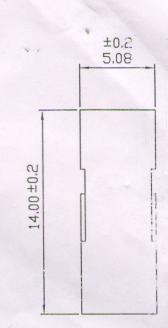
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2562 SERIES

.C.I.





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ND.	A	B	PART NO.	A	B
02	2.54	5.08	2562-12	27.94	30,48
03	5.08	7.62	2362-13	30,48	33.02
04	7.62	10.16	2562-14	33.02	35,56
05	10.16	12.70	2562-15	35.56	38.10
06	12.70	15.24	2562-16	38.10	40.64
07	15.24	17.78	2562-17	40.64	43.18
08	17.78	20.32	2562-18	43.18	45.72
09	20.32	22.86	2562-19	45.72	48.26
10	55'89	23.40	2562-20	48.26	50.80
- 11	25.40	27.94			
	02 03 04 05 06 07 08 09 10	02 2.54 03 5.08 04 7.62 05 10.16 06 12.70 07 15.24 08 17.76 09 20.32 10 22.86	02 2.54 5.08 03 5.08 7.62 04 7.62 10.16 05 10.16 12.70 06 12.70 15.24 07 15.24 17.78 08 17.76 20.32 09 20.32 22.86 10 22.86 25.40	02 2.54 5.08 2562-12 03 5.08 7.62 2362-13 04 7.62 10.16 2562-14 05 10.16 12.70 2562-15 06 12.70 15.24 2562-16 07 15.24 17.78 2562-17 08 17.76 20.32 2562-18 09 20.32 22.86 2562-19 10 22.86 25.40 2562-20	02 2.54 5.08 2562-12 27.94 03 5.08 7.62 2362-13 30.48 04 7.62 10.16 2562-14 33.02 05 10.16 12.70 2562-15 35.56 06 12.70 15.24 2562-16 38.10 07 15.24 17.78 2562-17 40.64 08 17.76 20.32 2562-18 43.18 09 20.32 22.86 2562-19 45.72 10 22.86 25.40 2562-20 48.26

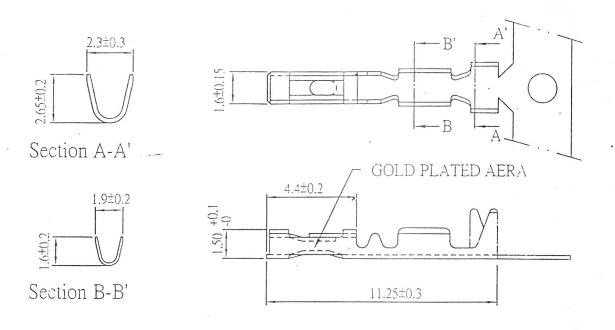
2-20 CIRCUITS MAT'L PBT MATES WITH: 2563 TERMINAL ACCEPTS WITH:2543 2545 SERIES WAFER TEMPERATURE RANGE: -25°C TO +85°C CURRENT RATING: 3A AC, DC VOLTAGE RATING:250V AC,DC SGS REPORT NO:PX/2000/0010502

	7					1				(The second seco	成明秋蒙 (小子科 小、J. J.		
計 MAR	ks RE	V 0									; 制中	FINISH	
								TITL	2	MATERIA		THRISTI	
CIFIED	TYPE	±0.4	±0.5	MARK	REVISED	Y. M. D.	REVISER		ACALE	/	ONIT	mm	
SPECI	PARTITION	20-40	40 UP	ISSUER	YANG	CHECK			ANO	GLE		3TH ANGLE	
	TYPE	±0.2	±0.3	○ 旗於 股化		旗欣股份有限公司		DATE		ONG I	NO. 62H		
DINC	PARTITION	1-10	10-20	U	EVER CONNECTOR	INDUST	RIAL CO., L	JD.	02.0	03 11	20]
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EVER-CONN E.C.I.

A.

2563 SERIES



2563 SERIES

MAT'L:2563 BRASS 2563P PHOSPHOR BRONZE TREATMENT:GOLD PLATED OVER NIKEL OR TIN PLATED BEFORE STAMPING MATES WITH:2561 & 2561H-04K SERIES HOUSING ACCEPTS WITH:2540 2541 2543 2545 SERIES WAFER ACCEPTS WITH:2561PS-04K 2561PR-04K WAFER MATES:0.64(.025") SQUIRE PIN OR ROUND PIN WIRE RANGE:AWG# 24-26

CSA FILE NO .: LR84767

備註 REMAN	rks RE	EV O		\triangle			2					
				\square				TITL	E 🖣	MATERIA	L	FINISH
ISE	TYPE	±0.4	±0.5	MARK	REVISED	Y. M. D.	REVISER		ACALE	1	UNIT	mm
TOLERANCES LESS OTHERWISE SPECIFIED	PARITTION	20-40	40 UP	ISSUER	YANG	CHECK			AN	IGLE		3TH ANGLE
FOLER	TYPE	±0.2	±0.3	0	旗欣股	份有限	公司		DATE		DWG	
UNLE	PARTITION	1-10	10-20	G	EVER CONNECT			D.	04.	09.10		2563

ONLINE CERTIFICATIONS DIRECTORY

ECBT2.E115256

Connectors for Use in Data, Signal, Control and Power Applications - Component

Page Bottom

Connectors for Use in Data, Signal, Control and Power Applications - Component

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

EVER-CONN INDUSTRIAL CO LTD

E115256

1 LANE 91 PEN CHOU RD KANGSHAN, KAOHSIUNG HSIEN 820 TAIWAN

Connectors, Model(s) 1510H--02 thru 1510H-13, 1510PR-02 thru 1510PR-13, 1510PS- 02 thru 1510PS-13, 2001PS-02 thru 2001PS-40, 2002PS-02 thru 2002PS-40, 2003PR-02 thru 2003PR-40, 2004PR-02 thru 2004PR-40, 2010R-02 thru 2010R-15, 2031H-02 thru 2031H-40, 2032H-02 thru 2032H-40, 2040H-02 thru 2040H-15, 2501CH-02 thru 2501CH-18, 2501H-02 thru 2501H-20, 2501PR-02 thru 2501PR-20, 2501PS-02 thru 2501PS-20, 2520R-02 thru 2520R-15, 2530-02 thru 2530-20, 2532-02 thru 2532-20, 2533-02 thru 2533-20, 2542H-02 thru 2542PR-02 thru 2542PR-12, 2542PR-02E thru 2542PR-12E, 2542PS-02 thru 2542PS-12, 2561-04K-02 thru 2561-04K-15, 2561H-01 thru 2561H-40, 2561PR-04K-02 thru 2561PR-04K-15, 2561PS-04K-02 thru 2561PS-04K-15

2562H, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80, followed by A or blank.

2570H-02 thru 2570H-15, 2570PR-02 thru 2570PR-15, 2570PS-02 thru 2570PS-15, 2580H-02 thru 2580H-15, 2580PR-02 thru 2580PS-02 thru 2580PS-15, 2601CH-02 thru 2601CH-18

3015H, followed by -02 thru -12, followed by S or SE.

3015H, followed by -02, -04, -06, -08, -10, -12, -14, -16, -18, -20, -22 or -24, followed by E or blank.

3015PR, followed by -02 thru -12, followed by S.

3015PR, followed by -02, -04, -06, -08, -10, -12, -14, -16, -18, -20, -22 or -24.

3015PS, followed by -02 thru -12, followed by S.

3015PS, followed by -02, -04, -06, -08, -10, -12, -14, -16, 18, -20, -22 or -24.

3016H, followed by -02 thru -12, followed by S.

3016H, followed by -02, -04, -06, -08, -10, -12, -14, -16, -18, -20, -22 or -24.

4001H, 4001PS, 5015H-02(1*2), 5015H-02E(1*2), 5015H-2x-01P thru 5015H-2x-12P, 5015PR-02(1*2), 5015PR-2x-01P thru 5015PR-2x-12P, 5015PR-02(1*2), 5015PS-2x-01P thru 5015PS-2x-12P, 5016H-02(1*2), 5016H-2x-01P thru 5016H-2x-12P, 7521H-01, 8396H-02 thru 8396H-14, 8508H-02 thru 8508H-12, 8613H-04, 8625H, 8639-02 thru 8639-20, 8673-02 thru 8673-20, 8674-02 thru 8674-20, D181H-02 thru D181H-15, DAM-TK-NF, DAS-TK-NF, DBM-TK-NF, DBS-TK-NF, DCH-15P, DCH-15S, DCH-25P, DCH-25S, DCH-9P, DCH-9S, DHM-TK-NF, DHS-TK-NF, DIM-TK-NF, DIS-TK-NF

DMR, followed by -9, -15, -25, -37 or -H15, followed by P or S, may be followed by -02

E020H-01, E020H-02, E020H-03, E020H-04, E020H-06, E020H-09, E020H-12, E020H-15, E021H-01, E021H-02(1X2), E021H-03(1X3), E021H-04(1X4), E021H-05(1X5), E021H-06(3X2), E021H-09(3X3), E021H-12(3X4), E021H-15(3X5), E120H-01, E120H-02, E120H-03, E120H-04, E120H-06, E120H-09, E120H-12, E120H-15, E121H-01, E121H-02(1X2), E121H-03(1X3), E121H-04(1X4), E121H-05(1X5), E121H-06(3X2), E121H-09(3X3), E121H-12(3X4), E121H-15(3X5)

Female connectors 1081-01 thru 1081-06 and Mating pin headers 1081-01 thru 1081-06 or 1081-01L thru 1081-06L.

Female connectors 250H-02 thru 250H-20 and Mating pin headers 250PR-02 thru 250PR -20 or 250PS-02 thru 250PS.

Female connectors 2510-02 thru 2510-21 and Mating pin headers 2600PR-02 thru 2600PR -20 or 2600PS-02 thru 2600PS-20.

Female connectors 2550-02 thru 2550-25 and Mating pin headers 2540-02 thru 2540-40 or 2541-02 thru 2541-40.

Female connectors 2551-04 thru 2551-54 and Mating pin headers 2543-02 thru 2543-40 or 2545-02 thru 2545-40.

Female connectors 3095-06 thru 3095-12 and Mating pin headers 3096-06 thru 3096-12.

ECBT2.E115256 - Connectors for Use in Data, Signal, Control and Power Applications - Component

Female connectors 3960-02 thru 3960-11 and Mating pin headers 3961-02 thru 3961-11 or 3962-02 thru 3962-11.

Female connectors 5080-02 thru 5080-15 and Mating pin headers 5081-02 thru 5081-15, 5082-02 thru 5082-15, 5083-02 thru 5083-15 or 5084-02 thru 5084-15.

Female connectors 7500-02 thru 7500-10 and Mating pin headers 7501-02 thru 7501-10, 7502-02 thru 7502-10, 7503-02 thru 7504-02 thru 7504-10.

Female connectors 7550-01 thru 7550-06 and Mating pin headers 7551-01 thru 7551-06 or 7551-01L thru 7551-06L.

Female connectors 8620-4 and Mating pin headers 8621-4 or 8622-4.

Female connectors 8639-02 thru 8639-21 or 8669-02 thru 8669-20 and Mating pin headers 8673-02 thru 8673-20, 8674-02 thru 8674-20, 8675-02 thru 8675-20 or 8676-02 thru 8676-20.

Female header connectors 2021-02 thru 2021-20 or 2022-02 thru 2022-20 and Mating connectors 2020-02 thru 2020-20.

M125H-02 thru M125H-15, M125PR-02 thru M125PR-15, M125PS-02 thru 1M125PS-15

Crimp terminal housings, Model(s) 2520-02 thru 2520-20

Female connectors, Model(s) 2010-02 thru 2010-16

Marking: Company name or E model designation on the designation on 2013-09-3	I EV.	I" or trademark	
Questions?	Print this page	<u>Terms of Use</u>	Page Top

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DONGGUAN PLENTY POLYMERIC TECHNOLOGY CO., LTD

NO.11 QULING, QUANTANG MANAGEMENT DISTRICT,

LIAOBU TOWN, DONGGUAN CITY, GUANGDONG

TEL: +86-769-81259959

FAX: +86-769-83300933

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MATERIAL FORMULATION CONFIDENTIAL REPORT

SUPPLIER: 东莞美塑塑料科技有限公司 TYPE OF MATRIAL: PBT(Poly Butylene Terephthalate)聚丁烯对苯二甲酸酯 Specification: PBT Bogen206

Description: PBT Bogen206 复合材料包含 PBT 树脂、玻璃纤维、阻燃剂、其它。 The raw material of PBT-Bogen206 compound contains PBT pure resin, glass fiber,

flame retardant, and additives.

PBT 复合材料成分表

Chemical Composition of PBT Compound

		规格 Grade	CAS Numl	ber& Content
	组成 Chemical Molecular Formula Composition		CAS Number	含量(%) Content(%)
1	PBT 树脂 PBT Resin	$(CH_2-CH_2-CH_2-CH_2-O-C-O-C-O)_N$	26062-94-2	52~63
2	玻璃纤维 Glass Fiber	$SiO_2 \cdot Ca0 \cdot Al_2O_3$	65997-17-3	10~30
3	阻燃剂 Flame Retardant	$C_{21}H_6Br_9N_3O_3$	25713-60-4	12~15
4	色母 Few of Additives			0.5





測試報告 Test Report

Chemical Laboratory-Ka

號碼(No.) : KA/2014/C2293 日期(Date) : 2015/01/05 頁數(Page) : 1 of 4

旗欣股份有限公司 EVER CONNECTOR INDUSTRIAL CO., LTD 高雄市岡山區本洲路91巷1號 NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

841WB

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(The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) 收件日期(Sample Receiving Date) 測試期間(Testing Period) 送樣廠商(Sample Submitted By)	: 2014/12/27 TO 2015/01/05
	\sim
測試結果(Test Results)	: 請見下一頁 (Please refer to next pages).
	. HCT A (Hease refer to next pages).
Ray Chang, Ph.D. / Mana Signed for and on behal SGS Taiwan Limited	GS

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Member of the SGS Group



測試報告 Test Report

號碼(No.) : KA/2014/C2293 日期(Date) : 2015/01/05 頁數(Page) : 2 of 4

旗欣股份有限公司 EVER CONNECTOR INDUSTRIAL CO., LTD 高雄市岡山區本洲路91巷1號 NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

<u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1 : 黑色 PBT (BLACK PBT)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層折儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素(氯) / Halogen-Chlorine (C1) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	参老BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	90.4
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

備註(Note):

1. mg/kg = ppm; 0.1wt% = 1000ppm

2. n.d. = Not Detected (未檢出)

3. MDL = Method Detection Limit (方法偵測極限值)

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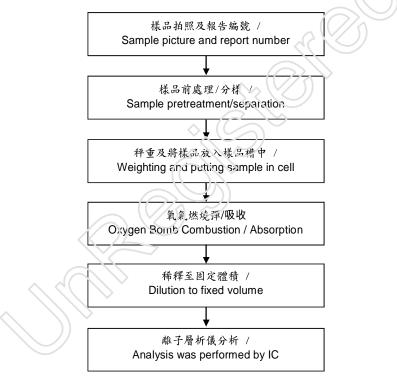
測試報告

號碼(No.) : KA/2014/C2293 日期(Date) : 2015/01/05 頁數(Page) : 3 of 4

旗欣股份有限公司 EVER CONNECTOR INDUSTRIAL CO., LTD 高雄市岡山區本洲路91巷1號 NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員:洪秀眞/ Name of the person who made measurement: Jean Hung
- 2) 测試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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Test Report 旗欣股份有限公司 EVER CONNECTOR INDUSTRIAL CO., LTD

高雄市岡山區本洲路91巷1號

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以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)	: TI	ERMINAL-BRASS
收件日期(Sample Receiving Date)	: 20	014/12/27
測試期間(Testing Period)	: 20	014/12/27 TO 2015/01/05
送樣廠商(Sample Submitted By)	: 旗	集欣股份有限公司(EVER CONNECTOR INDUSTRIAL CO., LTD)

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).



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<u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1 整體混測:TERMINAL-BRASS (MIXED ALL PARTS:TERMINAL-BRASS) :

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	6.03
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by boiling water extraction#	**	参考IEC 62321: 2008方法, 用 boiling water extraction方法檢測. / With reference to IEC 62321: 2008 and performed by boiling water extraction Method.	0.02mg/kg with 50 cm ² surface area	Negative
全氣辛烷磺酸 / Perfluorooctane sulfonates (PFOS - Acid, Metal Salt, Amide)	mg/kg	参考US EPA 3550C: 2007方法,以液相層析/ 質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法,以液相層析/ 質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多溴聯苯總和 / Sum of PBBs			-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl		參考IEC 62321: 2008方法,以氣相層析儀/質 譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs		參考IEC 62321: 2008方法,以氣相層析儀/質 譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.

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備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. # = a. Positive means the presence of CrVI on the tested areas (Positive表示測試區域偵測到六價路)
 - b. Negative means the absence of CrVI on the tested areas (Negative表示测試區域未偵測到六價路)
 - The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 \mbox{cm}^2 tested areas . / 該溶液濃度≧0.02 mg/kg with 50 cm² (tested areas)
- 7. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個别單一材質的含量. (The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中不 得超過1µg/m²。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semifinished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1 \mu g/m^2$.)

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旗欣股份有限公司

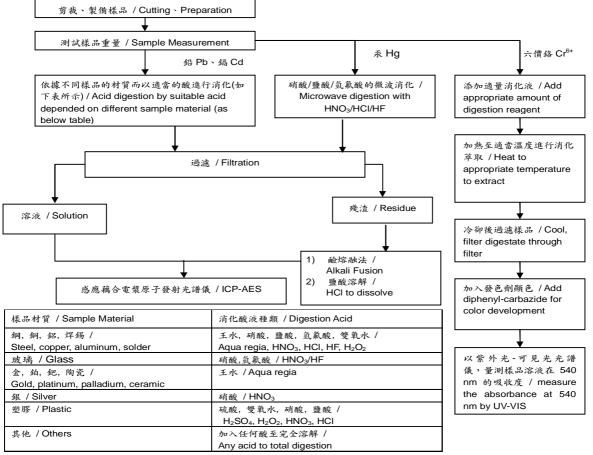
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NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

1) 根據以下的流程圖之條件,樣品已完全溶解。(; 價 錄測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

2) 测试人員:劉俊宏 / Name of the person who made measurement: Jony Liu

3) 测試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



Note**: (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.

(2) 針對金屬材料加入純水,加熱至沸腾萃取. / For metallic material, add pure water and heat to boilina.

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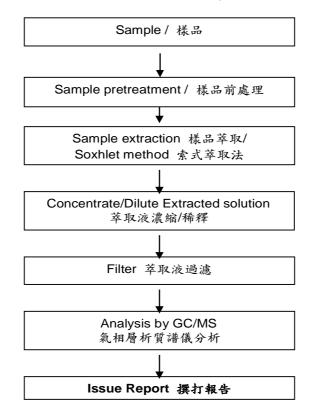


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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen 2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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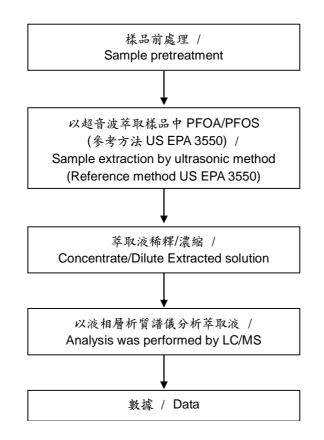
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全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)测試人員:黄璟瓔 / Name of the person who made measurement: Ginny Huang

2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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东莞市千岛金属锡品有限公司

Thousand Island Metal Foil Co., Ltd.

产品检验报告书

产品	- 品名称 无铅锡线 A		A #	样品规格 Sr		n99.3/Cu0.7			金依据	GB/T31	31-2001			
	生产日期			20	09-02-08	试样	NC		D.2008121333A					
序号	1 7		检测项目	Ē	技术要求		检测样品数		检测结果		单项结论			
1			外表质量	<u>乳</u> 昆	光亮	^Z 整	各一个	~	光亮	平整	合	格		
2			尺寸(mn	n)	Ø1.0±	0.02	5米		1	.0	合	格		
3			熔点(℃)	220-2	.30	1KG		2	27	合	格		
4		电	阻率(Ωcn	n^2/m)	≤0.1	77	3米		0.	05	合	格		
5		火	旱剂含量(%)	1.5-1	.7	3米		1.	62	合	格		
6			扩展率(9	%)	>8	5	3米		9	96	合	格		
7			干燥度		粉沫易	易去	5块		粉沫	汤去	合	格		
8		¥	色缘电阻(Ω)	≥10	11	5块		10 ¹¹		合	格		
9			PH 值		6-7	,	3 次		6.7		6.7		合	格
10	10 焊锡环			不飞溅		5块	7		飞溅	合格				
11	1		铜镜试验	<u>ک</u>	无穿透性	主腐蚀	3 块		不腐蚀		合格			
	元素	素名称	Sn	Cu	Pb	Bi	As	Sb		Zn	Al	Fe		
(GB/T3131) 检验依据		≧成份 vt%)	99.0-99.6	0.65-0.75	0.01	0.01	0.02	0.05		0.005	0.005	0.02		
¥ 13131)	实测	则结果	99.3	0.69	0.0009	0.0007	0.0028	0.001	3 0	0.0007	0.0006	0.008		
	单项	顷结论	合格	合格	合格	合格	合格	合格	ζ Ι	合格	合格	合格		
检 验 结 论	经检测,所有项目都符合标准要求。 千岛金属锡品有限公司													
签			主 检			编制			批准					
名			黄信元			能慧			刘曙光					
日期		2009	年02月0	8日	2	2009年02月08日				2009年	至02月08	日		



No. CANEC1417822706

Date: 06 Nov 2014

Page 1 of 8

THOUSAND ISLAND METAL FOIL CO., LTD

BLOCK FIFTEEN NEW SUN INDUSTRIAL AREA TANGXIA TOWN, DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : Solder wire Sn99.3Cu0.7

SGS Job No. :	CP14-057422 - SZ
Model No. :	107
Client Ref. Info. :	107H
Date of Sample Received :	30 Oct 2014
Testing Period : Test Requested : Test Method :	30 Oct 2014 - 05 Nov 2014 Selected test(s) as requested by client. Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

U

Yan Lee Approved Signatory



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No. CANEC1417822706

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN14-178227.006	Silvery metal wire

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES. (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis. (5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	46
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	\diamond	Negative
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC14178227	Date: 0	6 Nov 2014	Page 3 of 8	
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II (2) Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

Oblight Sector Secto

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

Hexabromocyclododecane (HBCDD)

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	MDL	<u>006</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes :

 Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Phthalate

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.



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Test Report	No. CANEC14178227	Date: 06	Nov 2014	Page 4 of 8	
<u>Test Item(s)</u> Dibutyl Phthalate (DBP)	<u>CAS NO.</u> 84-74-2	<u>Unit</u> %(w/w)	<u>MDL</u> 0.003	<u>006</u> ND	
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND	

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.



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No. CANEC1417822706

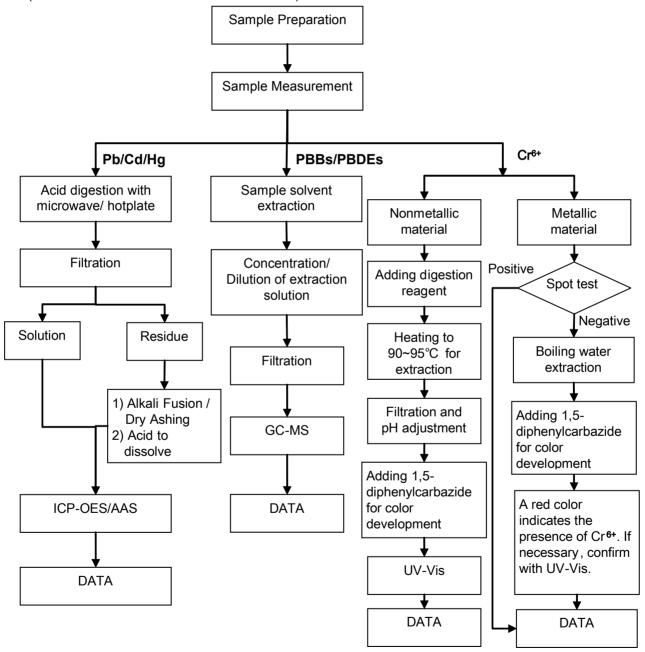
Date: 06 Nov 2014

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).





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No. CANEC1417822706

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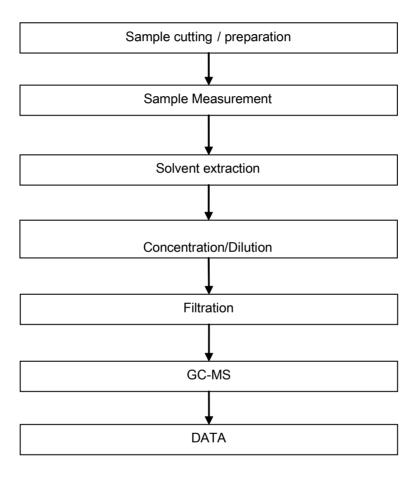
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HBCDD Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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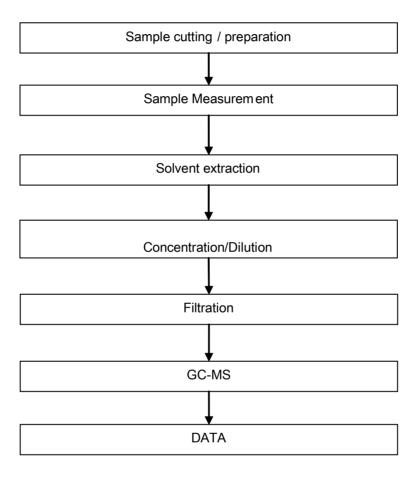
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Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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No. CANEC1417822706

Sample photo:



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*** End of Report ***



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公司名称: 展兴机械有限公司

兹证明提供 公司: 热缩套管

百廿割	日七	百廿割	原材料制	物质		物质	t2	物质	i 3	物质	4	物质	5	物质	ŧ6
^{尿闪科} 名称	例	^{尿闪杆} 产地	^{康初科嗣} 造供应商	名称	构成 比率	名称	构成 比率	名称	构成 比率	名称	构成 比率	名称	构成 比率	名称	构成 比率
PE	70%	北京	北京有机	EVA	100%										
阻燃剂	15%	山西	山西铝粉	AL(OH)3	99%										
阻燃剂	13%	佛山	佛山金戈	Mg(OH)2	99%										
色母粒	2%	四川	成都新彩	PE	70%	色粉	30%								

由以下主要材料成分组成:

东莞市韬略电子制品有限公司

生效日期: 2009-11-07

页码: 1/1



No. CANEC1505019605

Date: 13 Apr 2015

Page 1 of 9

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO., LTD.

WOER MANSION, LANJING NORTH ROAD, PINGSHAN INDUSTRIAL ZONE, LONGGANG DISTRICT, SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : H-CLEAR RSFR HEAT SHRINKABLE TUBINGS

SGS Job No. :	CP15-017309 - SZ
Date of Sample Received :	07 Apr 2015
Testing Period :	07 Apr 2015 - 13 Apr 2015
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Opene

Alkene Liang Approved Signatory



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No. CANEC1505019605

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-050196.002	Transparent tube

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES. (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC15050196	No. CANEC1505019605			Page 3 of 9
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

<u>Halogen</u>

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	MDL	<u>002</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	MDL	<u>002</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes :

 Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Phthalate

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.



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Test Report	No. CANEC1505019605		Date: 13 Apr 2015		Page 4 of 9
<u>Test Item(s)</u> Dibutyl Phthalate (DBP)	<u>CAS NO.</u> 84-74-2	<u>Unit</u> %(w/w)	<u>MDL</u> 0.003	<u>002</u> ND	
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND	

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.



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No. CANEC1505019605

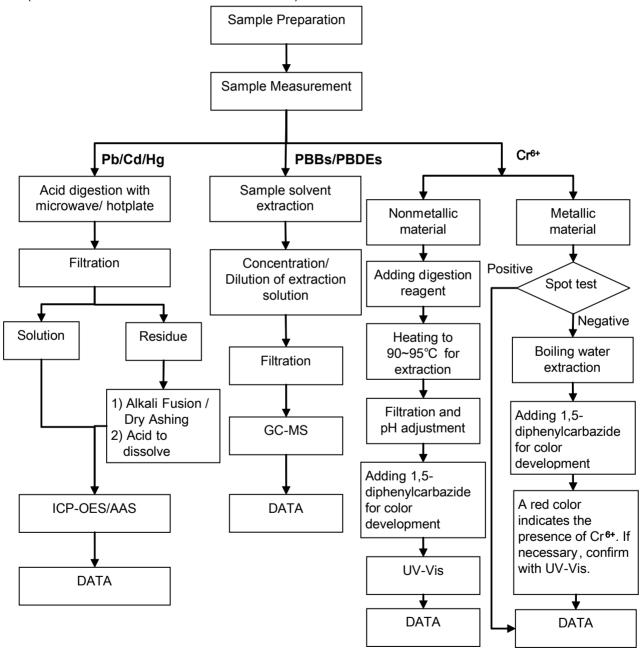
Date: 13 Apr 2015

Page 5 of 9

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).





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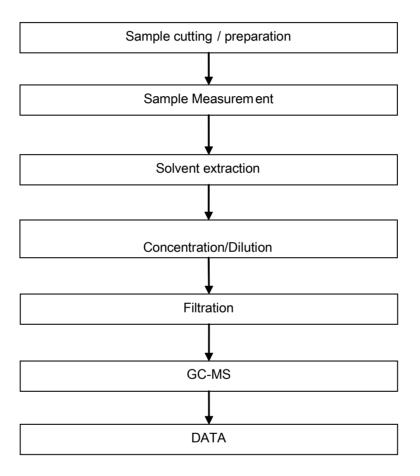
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Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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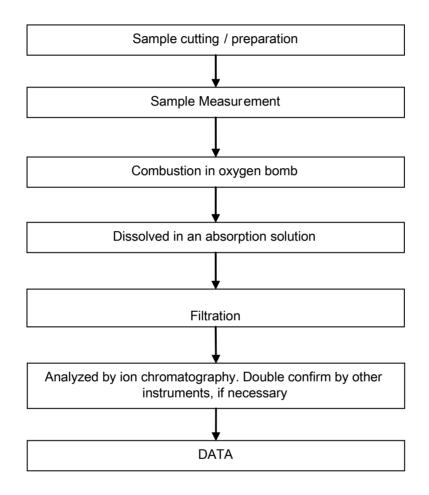
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Halogen Testing Flow Chart

1) Name of the person who made testing: Hanming Xiao

2) Name of the person in charge of testing: Bella Wang





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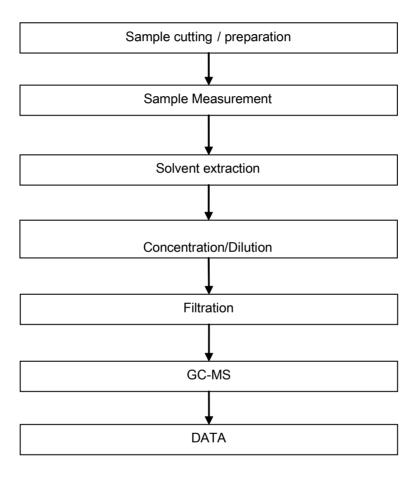
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HBCDD Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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No. CANEC1500269601

Date: 13 Jan 2015

Page 1 of 10

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO., LTD.

WOER MANSION, LANJING NORTH ROAD, PINGSHAN INDUSTRIAL ZONE, LONGGANG DISTRICT, SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Please see remark

SGS Job No. :	CP15-000748 - SZ
Date of Sample Received :	07 Jan 2015
Testing Period :	07 Jan 2015 - 13 Jan 2015
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Merry Lv Approved Signatory



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No. CANEC1500269601

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-002696.001	Black plastic tube w/ white printing

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES. (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC15002696	Date: 1	3 Jan 2015	Page 3 of 10	
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>
Fluorine (F)	mg/kg	50	95
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	MDL	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes :

 Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Phthalate

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.



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Test Report	No. CANEC1500269601		Date: 13 Jan 2015		Page 4 of 10
<u>Test Item(s)</u> Dibutyl Phthalate (DBP)	<u>CAS NO.</u> 84-74-2	<u>Unit</u> %(w/w)	<u>MDL</u> 0.003	<u>001</u> ND	
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND	

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.



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Test Report No. CANEC1500269601 Date: 13 Jan 2015 Page 5 of 10

Sample Name:

RSFR-H HEAT SHRINKABLE TUBINGS (E203950 🔊 WOER RSFR-H

TUBE 125°C VW-1 H)



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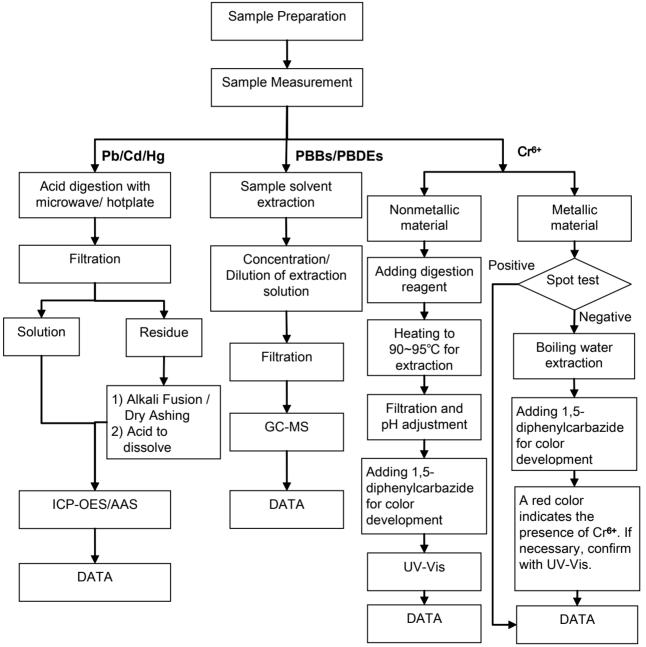
Date: 13 Jan 2015

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart
- (Cr6+ and PBBs/PBDEs test method excluded).





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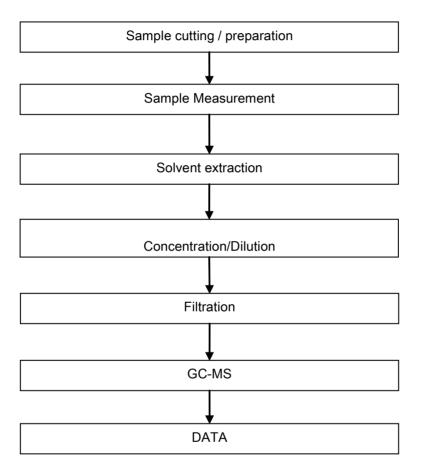
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HBCDD Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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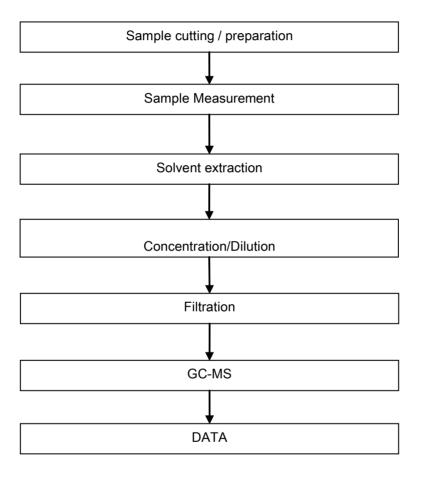
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Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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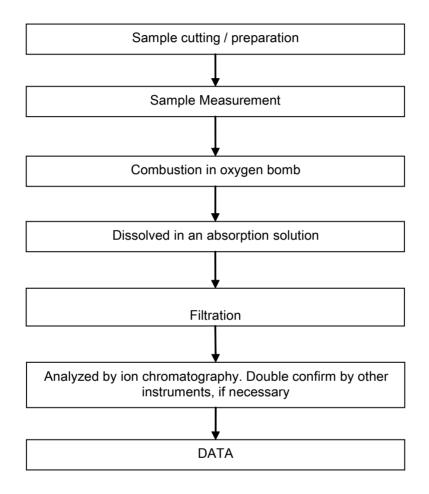
No. CANEC1500269601

ATTACHMENTS

Halogen Testing Flow Chart

1) Name of the person who made testing: Hanming Xiao

2) Name of the person in charge of testing: Bella Wang





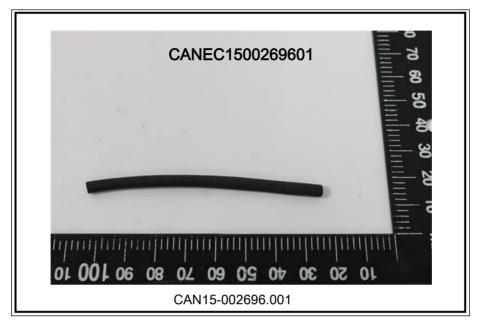
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产品型号	产品编码	规格(NN)	材质		(単根丝)	温	度范围
				最小	最大		
JXL-001	321025	3MM	PET	SHN	1300	-103"F-257"F	-75°C 125°C
JXL-002	401020	SMM	PET	SMM	1400	-103°F-257°F	-75°C- 125°C
JXL-003	401025	4111	PET	488	1400	-103°F-257°F	-75°C-125°C
JXL-004	481025	5 M M	PET	5MN	2000	-103°F257°F	-75°C 125°C
JXL-005	561020	5 M M	PET	5MM	1800	-103°F-257°F	-75°C 125°C
JXL-006	561025	688	PET	6 MM	23 NN	-103°F 257°F	-75°C 125°C
JXL-007	641025	7MM	PET	7MN	26 MM	-103°F 257°F	-75°C 125°C
JXL-008	721025	8MM	PET	8MM	29MM	-103°F257°F	-75°C 125°C
JXL-009	961025	12MM	PET	1288	36 MM	-103°F 257°F	-75°C 125°C
JXL-010	1201025	14MM	PET	14MM	45MM	-103°F-257°F	-75°C- 125°C
JXL-011	243020	4MM	PET	4間間	1200	-103°F-257°F	-75°C 125°C
JXL-012	243025	6MM	PET	6MM	1200	-103°F 257°F	-75°C 125°C
JXL-013	322025	6MM	PET	6 MM	15MM	-103°F 257°F	-75°C 125°C
JXL-014	323020	6XM	PET	6NN	16MM	-103°F 257°F	-75°C 125°C
JXL-015	323025	SMM	PET	8MM	19MM	-103°F 257°F	-75°C 125°C
JXL-016	403020	8 MAK	PET	8MM	21 M M	-103°F 257°F	-75°C 125°C
JXL-017	403025	1000	PET	1000	23 NH	-103°F- 257°F	-75°C 125°C
JXL-018	482020	SILIK	PET	SMM	2000	-103°F-257°F	-75°C 125°C
JXL-019	483020	1000	PET	1088	2500	-103°F 257°F	-75°C 125°C
JXL-020	483025	1400	PET	1488	26 M M	-103°F257°F	-75°C 125°C
JXL-021	563020	1200	PET	1288	31 M M	-103°F 257°F	-75°C 125°C
JXL-022	563025	16MM	PET	16111	32MM	-103°F 257°F	-75°C 125°C
JXL-023	643020	16MM	PET	1610	33 MM	-103°F 257°F	-75°C 125°C
JXL-024	643025	18MM	PET	1811	36 MM	-103°F 257°F	-75°C 125°C
JXL-025	723020	18MM	PET	1811	38 MM	-103°F 257°F	-75°C 125°C
JXL-026	723025	25MN	PET	25 MM	42MM	-103°F-257°F	-75°C 125°C
JXL-027	963020	25MN	PET	25 MM	56 MM	-103°F-257°F	-75°C 125°C
JXL-028	963025	35NN	PET	35111	61 MM	-103°F- 257°F	-75°C 125°C
JXL-029	964025	40MM	PET	40 MM	65 MM	-103°F 257°F	-75°C 125°C
JXL-030	1203020	30MN	PET	30 111	70 MM	-103°F-257°F	-75°C 125°C
JXL-031	1203025	35NN	PET	35111	82 m	-103°F 257°F	-75°C 125°C
JXL-032	1204025	42MM	PET	42 81	83 MM	-103°F 257°F	-75°C 125°C
JXL-033	1206025	65MN	PET	65 MM	90 MM	-103°F 257°F	-75°C 125°C



No. CANEC1504269101

Date: 01 Apr 2015

Page 1 of 8

SHEN ZHEN HUIYUNHAI TECH. CO.,LTD

3F,A BUILDING,SHUNCHENGJI INDUSTRIAL AREA,DAHE ROAD,QINGHU,LONGHUA,SHENZHEN,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : FLAME RESISTANT PET SLEEVING

SGS Job No. :	CP15-014478 - SZ
Model No. :	723025
Date of Sample Received :	26 Mar 2015
Testing Period :	26 Mar 2015 - 01 Apr 2015
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Almery

Almay Gao Approved Signatory



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No. CANEC1504269101

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-042691.001	Black material

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES. (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC15042691	01	Date: 0	1 Apr 2015	Page 3 of 8
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	MDL	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Phthalate

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND



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Test Report	No. CANEC150426910	01	Date: 01	Apr 2015	Page 4 of 8
<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND	

Notes :

Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:

(1) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

(2) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl Phthalates (DIBP) have been adopted in the draft of Commission Delegated Directive amending Annex II to Directive 2011/65/EU of the European Parliament, and the regulatory limit of each restricted substances should be 0.1%.



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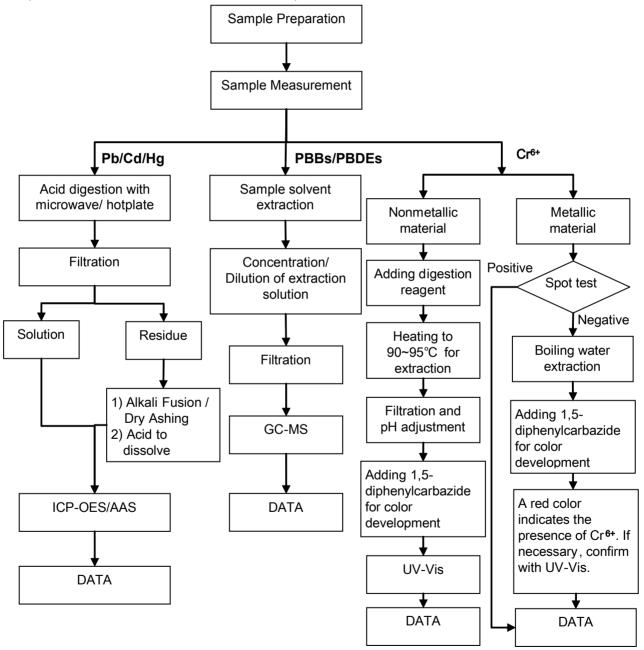
Date: 01 Apr 2015

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).





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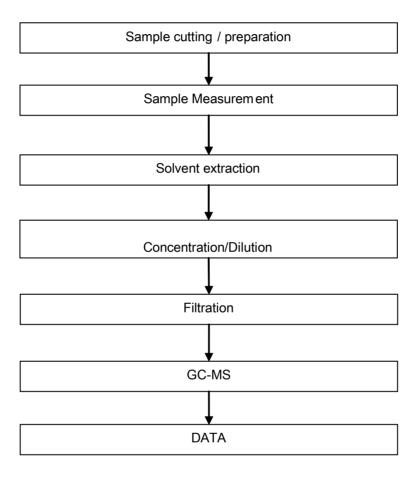
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Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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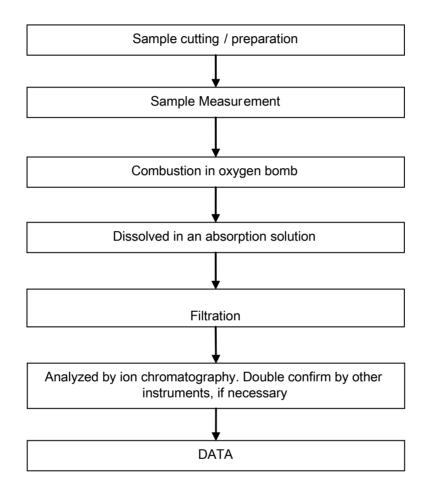
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Halogen Testing Flow Chart

1) Name of the person who made testing: Hanming Xiao

2) Name of the person in charge of testing: Bella Wang





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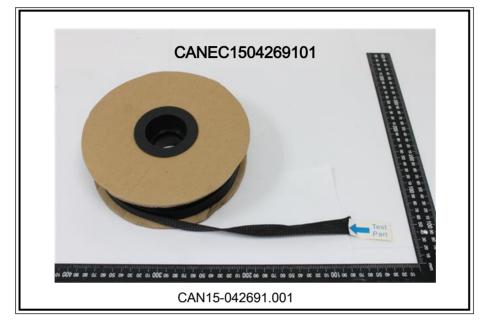
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Report No.: HX201401674-2

Applicant: Address:	DONG GUAN XIAN KAN THE SECOND INDUSTF GUAN CITY		RODUCE CO.,LTD ′U DA LING SHAN TOWN.DONG
Report on the submit	ted sample(s) said to be:		
Name:	Acetate tape		
Type/Model:			
Buyer:			
Supplier:			
Date of Receipt:	Mar.10, 2014	Test period:	Mar.10, 2014 – Mar.13, 2014
Test Request:	In accordance with RoHS	Directive 2011/65/	EU and its amendment directives.
Test Result:	Please refer to following p	bage(s).	
Conclusion:	Based on the performed RoHS Directive 2011/65/		ample, the result(s) comply with the ent directives.

Tested by Reviewed by <u>kerinken</u> Approved by Haillows GNETROLOGY Seal of: GUANGZHOU GRG METROLOGY & TEST ITD 201 Issue date: Mar.13, PROVED

This test report is responsible for the tested samples only. Without permission of the test center this test report is not permitted to be duplicated in extracts. The test report is invalid without the official stamp of GUANGZHOU GRG METROLOGY & TEST CO., LTD. The test report is invalid if altered. Objections to the test report must be submitted to GUANGZHOU GRG METROLOGY & TEST CO., LTD. The test report is invalid if altered. Objections to the test report must be submitted to GUANGZHOU GRG METROLOGY & TEST CO., LTD. The test report is invalid if altered. Objections to the test report must be submitted to GUANGZHOU GRG METROLOGY & TEST CO., LTD.

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Sample description:

1. Black adhesive cloth

Test method:

Test Item(s)	Test method	Measuring instrument	MDL
Lead (Pb)	IEC 62321:2008,section 10	ICP-OES/AAS	2mg/kg
Cadmium (Cd)	IEC 62321:2008,section 10	ICP-OES/AAS	2mg/kg
Mercury (Hg)	IEC 62321:2008,section 7	ICP-OES	2mg/kg
Hexavalent Chromium [Cr(VI)]	IEC 62321:2008,Annex C	UV-VIS	5mg/kg
PBBs & PBDEs	IEC 62321:2008,Annex A	GC-MS	10mg/kg

Test result(s):

Test Item	Result	Unit	RoHS Limit
	1	Onic	
Lead (Pb)	N.D.	mg/kg	1000
Cadmium (Cd)	N.D.	mg/kg	100
Mercury (Hg)	N.D.	mg/kg	1000
Hexavalent Chromium [Cr(VI)]	N.D.	mg/kg	1000

Test Item	Result	Unit	RoHS Limit
Test tem	1		
Sum of PBBs	N.D.	mg/kg	1000
Monobromobiphenyl	N.D.	mg/kg	
Dibromobiphenyl	N.D.	mg/kg	
Tribromobiphenyl	N.D.	mg/kg	
Tetrabromobiphenyl	N.D.	mg/kg	
Pentabromobiphenyl	N.D.	mg/kg	
Hexabromobiphenyl	N.D.	mg/kg	

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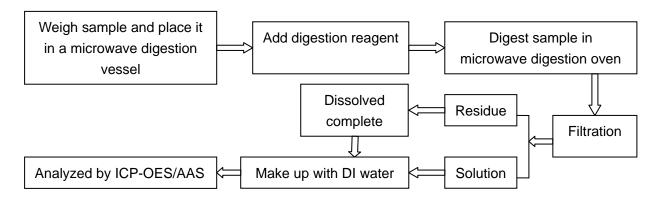
Heptabromobiphenyl	N.D.	mg/kg	
Octabromobiphenyl	N.D.	mg/kg	
Nonabromobiphenyl	N.D.	mg/kg	
Decabromobiphenyl	N.D.	mg/kg	
Sum of PBDEs	N.D.	mg/kg	1000
Mono-bromodiphenyl ether	N.D.	mg/kg	
Dibromodiphenyl ether	N.D.	mg/kg	
Tribromodiphenyl ether	N.D.	mg/kg	
Tetrabromodiphenyl ether	N.D.	mg/kg	
Pentabromodiphenyl ether	N.D.	mg/kg	
Hexabromodiphenyl ether	N.D.	mg/kg	
Heptabromodiphenyl ether	N.D.	mg/kg	
Octabromodiphenyl ether	N.D.	mg/kg	
Nonabromodiphenyl ether	N.D.	mg/kg	
Decabromodiphenyl ether	N.D.	mg/kg	

Remark: 1) mg/kg = ppm

2) MDL = Method Detection Limit

3) "N.D." = Not Detected (Below method detection limit)

Test Process for Pb / Cd



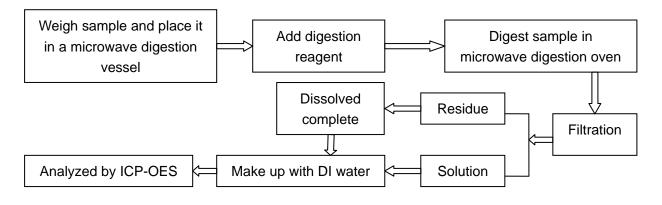
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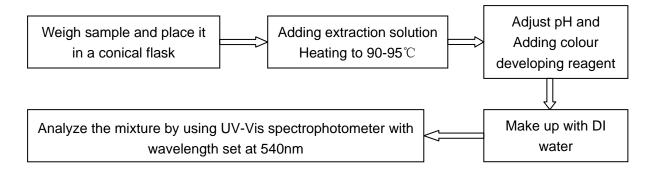


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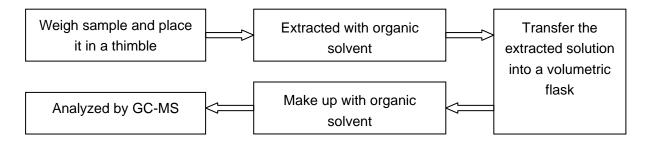
Test Process for Hg



Test Process for Cr (VI)



Test Process for PBBs & PBDEs

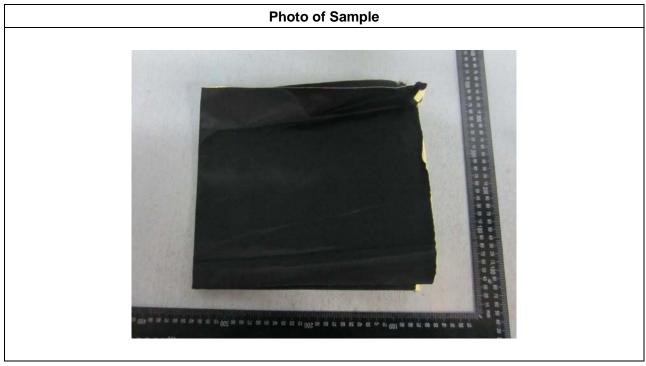


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