

中華民國 106 年 08 月 25 日

承 認 書

客 戶: 艾訊股份有限公司

機 種:

零件名稱:

零件料號:

訊鉅圖號: 13WH170825-01

申請單位	承認單位
	

訊鉅電子股份有限公司

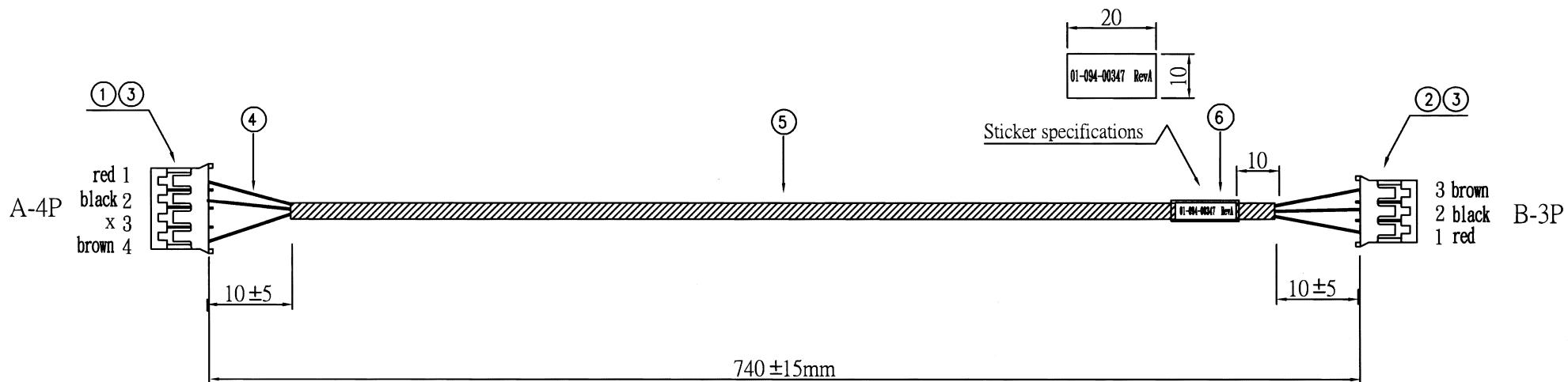
PLUM ELECTRONIC CO., LTD

新北市新莊區思源路 25 號 4 樓

電話:(02)8992-1818 8992-0698

傳真:(02)8992-0696

E-mail:plumelec@ms35.hinet.net



ITEM	PART NAME	Q' TY	PART NO	REMARK
1	HOUSING	1	2000-H-04P	Pitch=2.0
2	HOUSING	1	2000-H-03P	Pitch=2.0
3	TERMINAL	6	2000-T-T-S	
4	ELECTRIC WIRE	3	UL 1571#28AWG	OD=0.85
5	SHRINK TUBE	1		Black
6	SHRINK TUBE	1		Transparent

COLOR	red	black		brown
A-4P	1	2	3	4
B-3P	1	2		3

CUSTOMER		MODEL NO.
艾訊股份有限公司		PARTS NO.
DRAWN BY	S.M HUWANG 2017/08/25	LED Cable 4P 2.0 to 3P 2.0 L=740mm
APPROVAL BY	J.R HUWANG 2017/08/25	貼標籤:01-094-00347 RevA
單位	mm	圖號
		13WH170825-01



Underwriters Laboratories Inc.®

333 Pfingsten Road
Northbrook, Illinois 60062-2096
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File E185092

Vol 1

Issued 01/14/1997
Revised 08/17/1999

**FOLLOW-UP SERVICE PROCEDURE
(TYPE L)**

COMPONENT - WIRING HARNESES
(ZPFW2, ZPFW8)

Manufacturer: PLUM ELECTRONIC CO LTD
(137843-001)
4TH FL
25 SUZ YUAN RD
HSIN CHUANG CITY
TAIPEI HSIEN TAIWAN

Applicant: SAME AS MANUFACTURER
(137843-001)

Recognized Company: SAME AS MANUFACTURER
(137843-001)

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

This PROCEDURE, and any subsequent revisions, is the property of UNDERWRITERS LABORATORIES INC. and is not transferable.

UNDERWRITERS LABORATORIES INC.

Robert H. Levine
Robert H. Levine
Sr. Vice President and
Chief U.S. Operations Officer

A

7

6

5

4

3

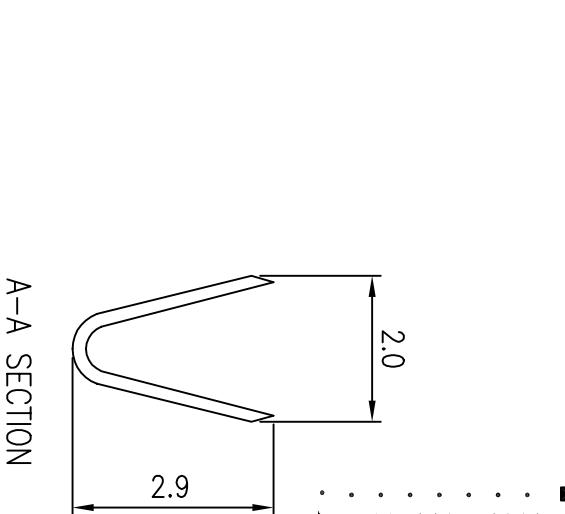
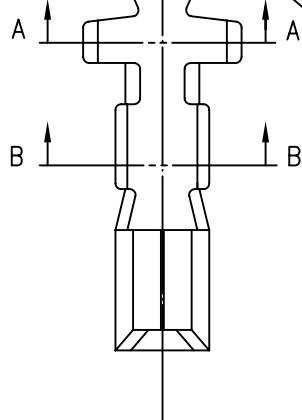
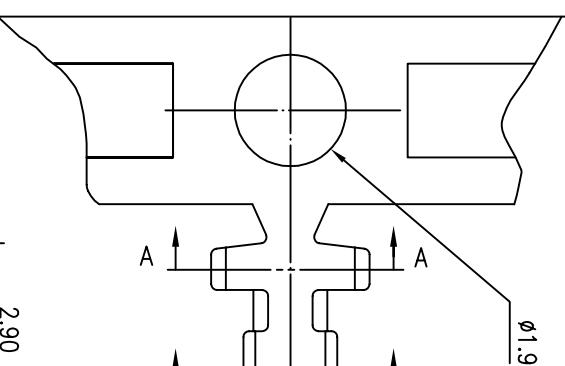
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1

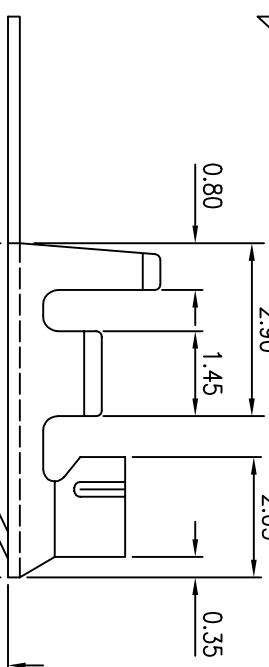
■ TERMINAL

- Part No: WL2000-T
- Material: Phos. bronze
- Thickness: 0.2mm
- Plating: Tin plated 60u"
- Wire Range: Suitable for AWG#26~30
- Insulation O.D: 1.40mm (max)
- Q'TY: 10,000 pcs/roll
- Accepts housing : WL2000H

E



A-A SECTION



B-B SECTION

MATERIAL

WELL-LIN ENTERPRISE CO., LTD.

SURFACE TREATMENT



0
mm
25

THIRD ANGLE PROJECTION

PART NO. WL2000-T
TITLE 2.0mm(0.79") PITCH
CRIMP TERMINAL

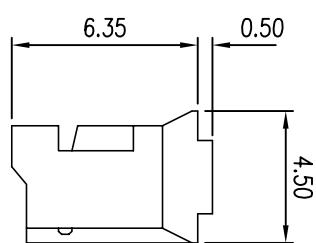
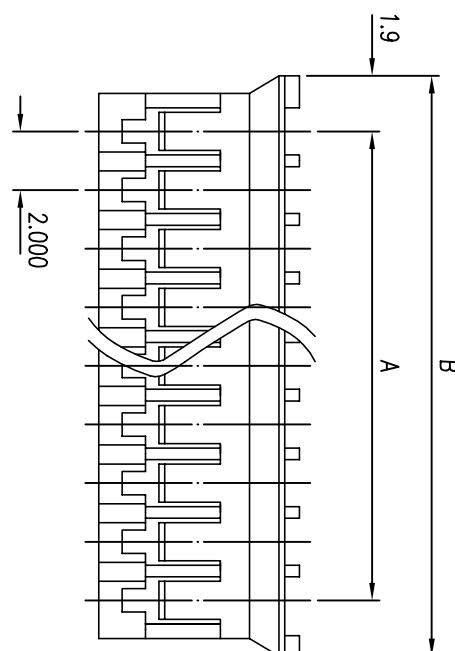
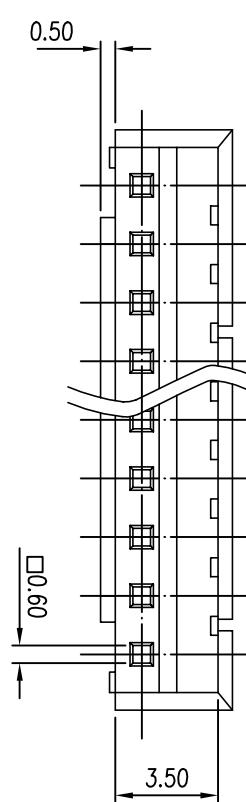
A

TOLERANCES UNLESS NOTED

LINEAR \pm	.0 \pm 0.25	.00 \pm 0.15	.000 \pm 0.08	Metric	A3		
ANGLES \pm	2°	3°	2°	SCALE 10/1	SHEET 1 OF 1	APPROVED	1

REVISIONS			
REV	DESCRIPTION	BY	DATE
1	PRIMARILY		

7 6 5 4 3 2 1



E

E

■ HOUSING

- Part No: WL2000H
- Material: Nylon 66, UL94V-2
- Pitch: 2.0mm (.079")
- Poles: 2~15
- Accepts terminals : WL2000-T

CIRCUITS	PART NO.	DIMENSION	
		A	B
2	WL2000H-02	2.0	5.8
3	WL2000H-03	4.0	7.8
4	WL2000H-04	6.0	9.8
5	WL2000H-05	8.0	11.8
6	WL2000H-06	10.0	13.8
7	WL2000H-07	12.0	15.8
8	WL2000H-08	14.0	17.8
9	WL2000H-09	16.0	19.8
10	WL2000H-10	18.0	21.8
11	WL2000H-11	20.0	23.8
12	WL2000H-12	22.0	25.8
13	WL2000H-13	24.0	27.8
14	WL2000H-14	26.0	29.8
15	WL2000H-15	28.0	31.8

B

C

D

D

A
REVISIONS

DESCRIPTION
PRIMARILY

BY

DATE

REV	1		
		7	6

REV	1		
		7	6

REV	1		
		7	6

MATERIAL

WELL-LIN ENTERPRISE CO., LTD.

SURFACE TREATMENT

TOLERANCES UNLESS NOTED



THIRD ANGLE PROJECTION

PART NO. WL2000H-XX

A



Metric

LINEAR \pm

.00 ± 0.15

.000 ± 0.08

ANGLES \pm

2°



SCALE

5/1

1

2

1



UNIT

2.0mm (.079")

CENTER HOUSING

12/23/98

Y.G.Z&W

APPROVED



DESIGNER

Y.G.Z&W

CHECKED

測試報告 Test Report

號碼(No.) : CE/2017/34010

日期(Date) : 2017/03/21

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維林企業有限公司

WELL-LIN ENTERPRISE CO., LTD.

新北市新店區寶橋路235巷12號8樓

8F, NO. 12, LANE 235, PAO CHIAO RD., XINDIAN, NEW TAIPEI CITY, TAIWAN



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

送樣廠商(Sample Submitted By) : 維林企業有限公司 (WELL-LIN ENTERPRISE CO., LTD.)
樣品名稱(Sample Description) : POLYAMIDE 46 (PA46), WHITE
樣品型號(Style/Item No.) : PA46
收件日期(Sample Receiving Date) : 2017/03/14
測試期間(Testing Period) : 2017/03/14 TO 2017/03/21

測試需求(Test Requested) :

- (1) 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚，DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)
- (2) 其他測試項目請見下一页。 (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請見下一页 (Please refer to next pages).

結論(Conclusion) :

- (1) 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚，DBP, BBP, DEHP, DIBP 的測試結果符合RoHS指令暨(EU) 2015/863之限值要求. (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.)


Troy Chang Manager - Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試結果(Test Results)

測試部位(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 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No. 1	
鎘 / Cadmium (Cd)	mg/kg	參考 IEC 62321-5 (2013)，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)，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	7.33	1000
汞 / Mercury (Hg)	mg/kg	參考 IEC 62321-4 (2013)，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)，以UV-VIS檢測。/ With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.	1000
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考 US EPA 3550C (2007)，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)，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 極限值 (MDL)	結果 (Result) No. 1	限值 (Limit)
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		5	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		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.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg	參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。/ With reference to IEC 62321-6 (2015) and performed by GC/MS.	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		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.	-

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8F, NO. 12, LANE 235, PAO CHIAO RD., XINDIAN, NEW TAIPEI CITY, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No. 1	限值 (Limit)
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	參考 IEC 62321-8/CD (2013)，以氣相層析儀/質譜儀檢測。/ With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	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
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg		50	n. d.	1000
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.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg	參考 IEC 62321 (2008)，以氣相層析/質譜儀檢測。/ With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	50	n. d.	-
六溴環十二烷及所有主要被辨別出的異構物 / 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		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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PFOS參考資訊(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 $1\mu\text{g}/\text{m}^2$ 。

(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 $1\mu\text{g}/\text{m}^2$.)

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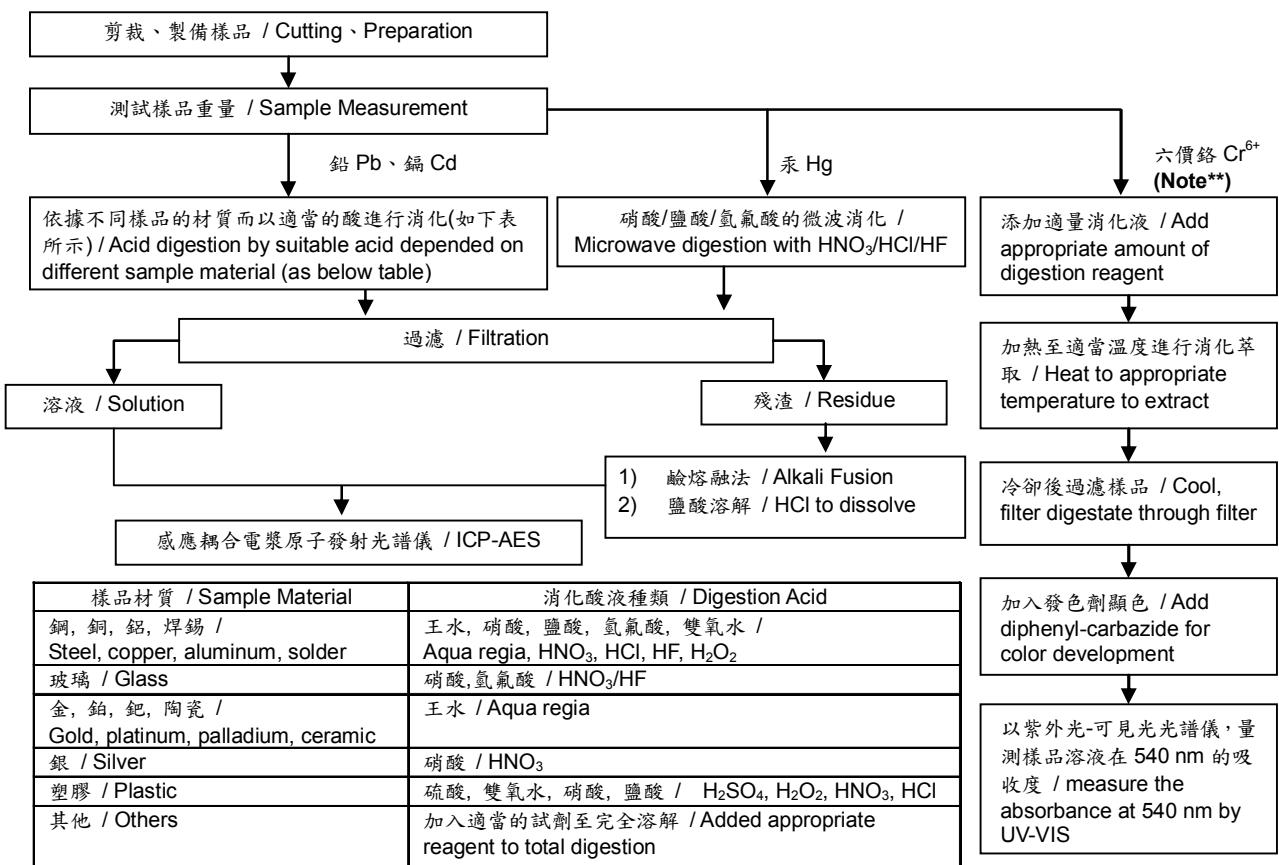


重金屬流程圖 / Analytical flow chart of Heavy Metal

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)

- 測試人員：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



Note** (For IEC 62321)

- (1) 對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。/ For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
- (2) 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.

測試報告 Test Report

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維林企業有限公司

WELL-LIN ENTERPRISE CO., LTD.

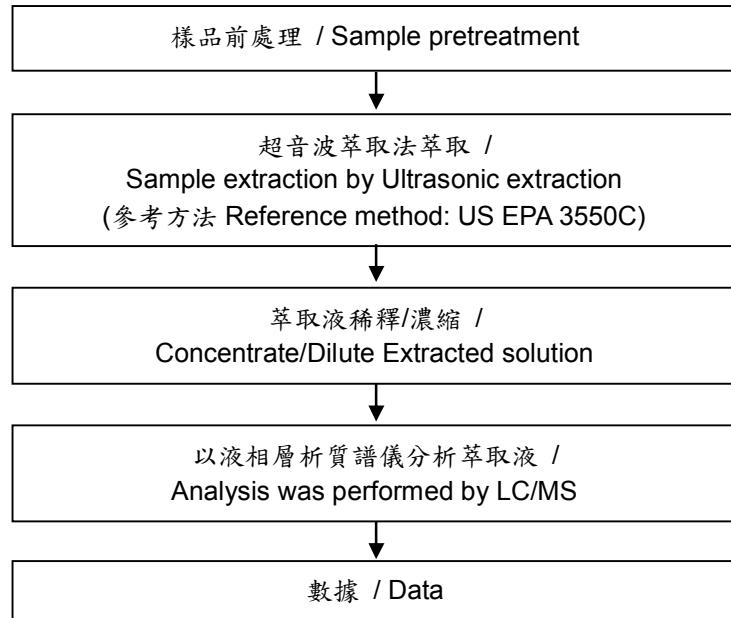
新北市新店區寶橋路235巷12號8樓

8F, NO. 12, LANE 235, PAO CHIAO RD., XINDIAN, NEW TAIPEI CITY, TAIWAN



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

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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號碼(No.) : CE/2017/34010 日期(Date) : 2017/03/21 頁數(Page): 8 of 11

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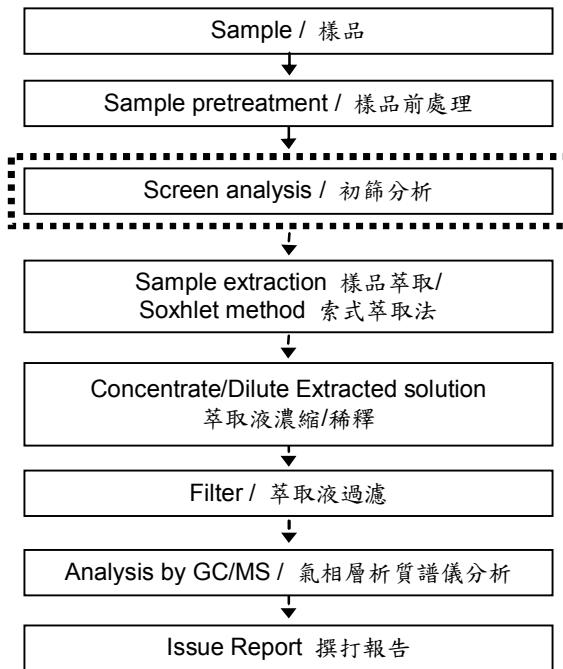
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: 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 - - - →



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號碼(No.) : CE/2017/34010 日期(Date) : 2017/03/21 頁數(Page): 9 of 11

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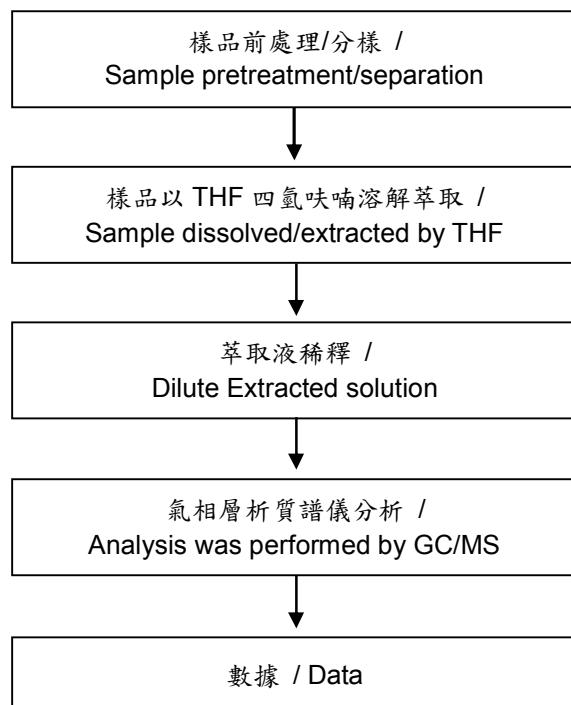
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor : Troy Chang

【測試方法/Test method: IEC 62321-8】



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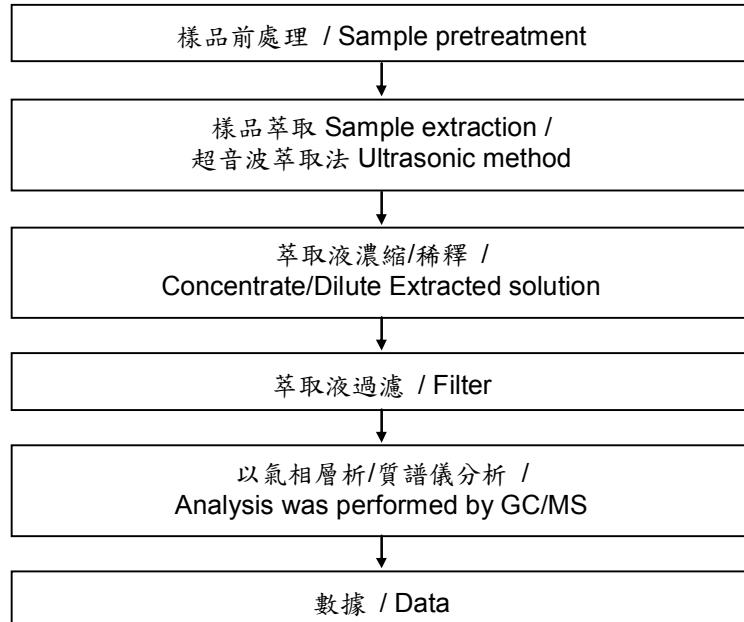
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy 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.)

CE/2017/34010



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測試報告

號碼(No.) : CE/2016/C5626

日期(Date) : 2017/01/04

頁數(Page): 1 of 4

Test Report

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

送樣廠商(Sample Submitted By) : 維林企業有限公司 (WELL-LIN ENTERPRISE CO., LTD.)

樣品名稱(Sample Description) : PHOSPHOR BRONZE (磷青銅)

收件日期(Sample Receiving Date) : 2016/12/27

測試期間(Testing Period) : 2016/12/27 TO 2017/01/04

測試需求(Test Requested) : 依據客戶要求，參考 RoHS 指令 2011/65/EU Annex II 測試鎘、鉛、汞、六價鉻。 (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample.)

測試方法(Test Method) : 請見下一页 (Please refer to next pages).

測試結果(Test Results) : 請見下一页 (Please refer to next pages).

結論(Conclusion) : 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻的測試結果符合 RoHS 指令 2011/65/EU Annex II 之限值要求 (Based on the performed tests on submitted samples, the test result(s) of Cadmium, Lead, Mercury, Cr(VI) comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)


JR Wang / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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號碼(No.) : CE/2016/C5626

日期(Date) : 2017/01/04

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測試結果(Test Results)

測試部位(PART NAME)No. 1 : 銅色金屬 (COPPER COLORED METAL)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No. 1	限值 (Limit)
				No. 1	
鎘 / Cadmium (Cd)	mg/kg	參考 IEC 62321-5 (2013), 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 62321-4 (2013), 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	21.0	1000
汞 / Mercury (Hg)	mg/kg	參考 IEC 62321-4 (2013), 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)(#2)	μg/cm ²	參考 IEC 62321-7-1 (2015), 以UV-VIS檢測. / With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.	0.10	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)
5. (#2) =
 - a. 當六價鉻結果大於0.13 μg/cm²，表示樣品表層含有六價鉻. / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr(VI).
 - b. 當六價鉻結果為n. d. (濃度小於0.10 μg/cm²)，表示表層不含六價鉻. / The sample is negative for Cr(VI) if Cr(VI) is n. d. (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. 當六價鉻結果介於 0.10 及 0.13 μg/cm² 時，無法確定塗層是否含有六價鉻. / The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

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測試報告

號碼(No.) : CE/2016/C5626

日期(Date) : 2017/01/04

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Test Report

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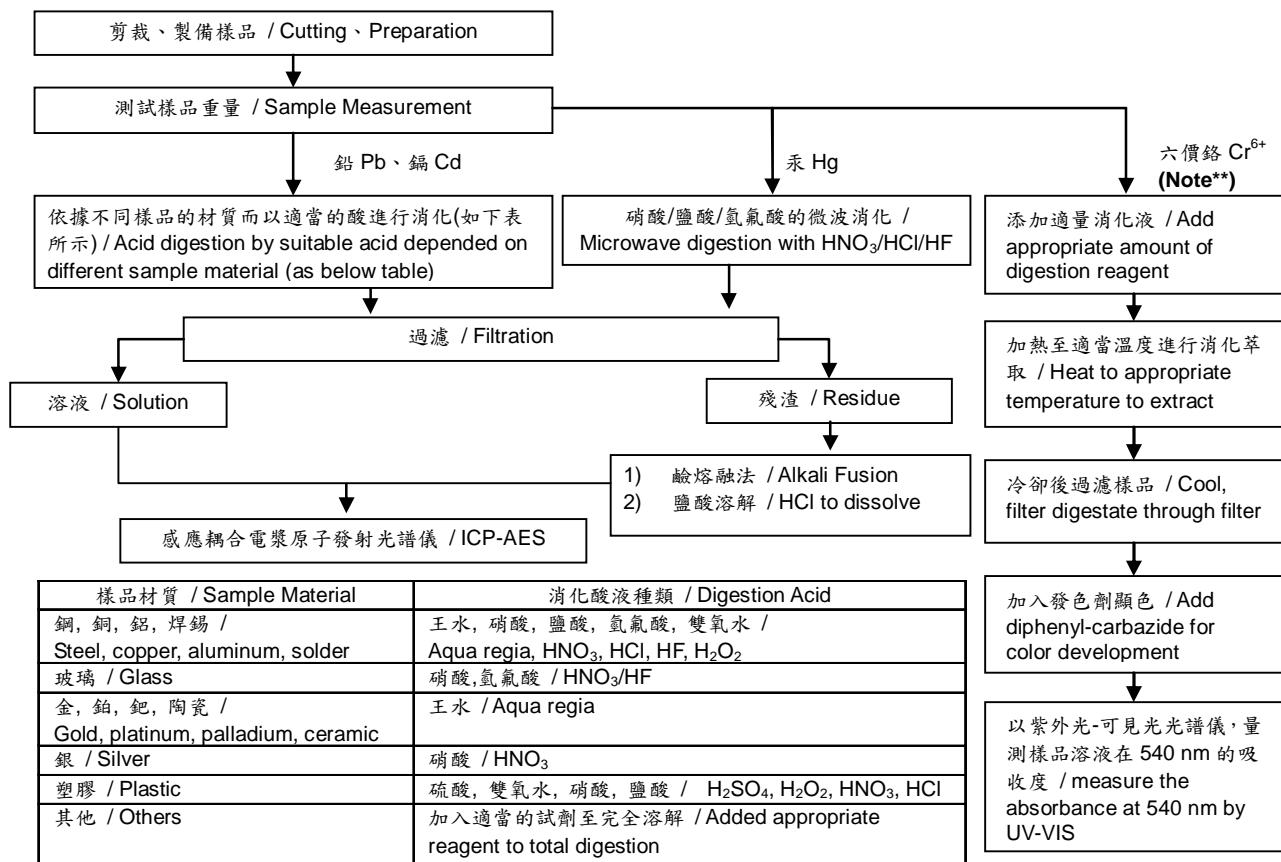
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根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

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

- 測試人員：王志璋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



Note** (For IEC 62321)

- (1) 對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。/ For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
- (2) 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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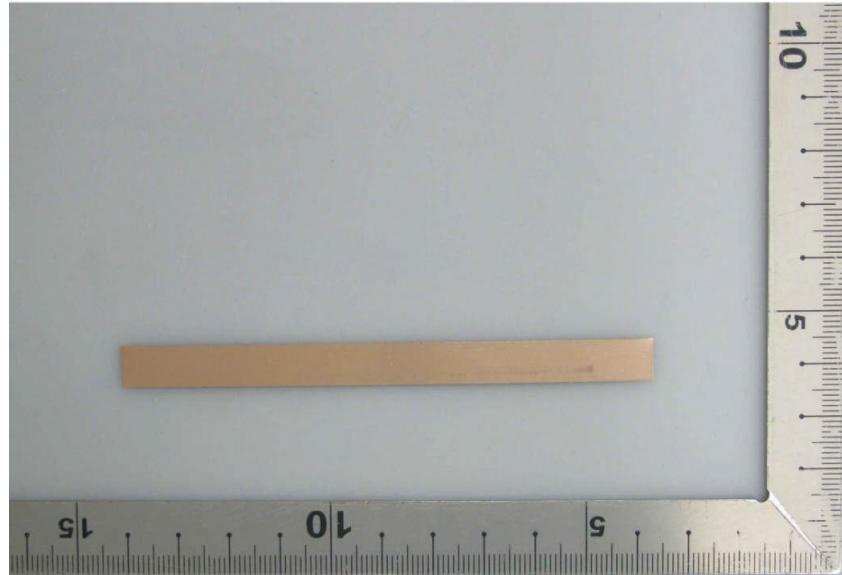
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

CE/2016/C5626

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測試報告

號碼(No.) : CE/2016/C5628

日期(Date) : 2017/01/04

頁數(Page): 1 of 5

Test Report

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

送樣廠商(Sample Submitted By) : 維林企業有限公司 (WELL-LIN ENTERPRISE CO., LTD.)

樣品名稱(Sample Description) : TIN PLATED (鍍錫電鍍層)

收件日期(Sample Receiving Date) : 2016/12/27

測試期間(Testing Period) : 2016/12/27 TO 2017/01/04

測試需求(Test Requested) : 依據客戶要求，參考 RoHS 指令 2011/65/EU Annex II 測試鎘、鉛、汞、六價鉻。 (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample.)

測試方法(Test Method) : 請見下一页 (Please refer to next pages).

測試結果(Test Results) : 請見下一页 (Please refer to next pages).

結論(Conclusion) : 根據客戶所選擇的部位測試，其鎘、鉛、汞、六價鉻的測試結果符合 RoHS 指令 2011/65/EU Annex II 之限值要求 (Based on the performed tests on selected part of submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI) comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)


JR Wang / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試結果(Test Results)

測試部位(PART NAME)No. 1 : 銀色金屬鍍層 (PLATING LAYER OF SILVER COLORED METAL)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No. 1	
鎘 / Cadmium (Cd)	mg/kg	酸洗脫鍍層, 參考IEC 62321-5 (2013), 以感應耦合電漿原子發射光譜儀檢測. / IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	100
鉛 / Lead (Pb)	mg/kg	酸洗脫鍍層, 參考IEC 62321-5 (2013), 以感應耦合電漿原子發射光譜儀檢測. / IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	25.6	1000
汞 / Mercury (Hg)	mg/kg	酸洗脫鍍層, 參考IEC 62321-4 (2013), 以感應耦合電漿原子發射光譜儀檢測. / IEC 62321-4 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	μg/cm ²	參考IEC 62321-7-1 (2015), 以UV-VIS檢測. / With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.	0.10	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. (#2) =
 - a. 當六價鉻結果大於 $0.13 \mu\text{g}/\text{cm}^2$ ，表示樣品表層含有六價鉻。/ The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI).
 - b. 當六價鉻結果為n. d. (濃度小於 $0.10 \mu\text{g}/\text{cm}^2$)，表示表層不含六價鉻。/ The sample is negative for Cr(VI) if Cr(VI) is n. d. (concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The coating is considered a non-Cr(VI) based coating.
 - c. 當六價鉻結果介於 0.10 及 $0.13 \mu\text{g}/\text{cm}^2$ 時，無法確定塗層是否含有六價鉻。/ The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive - unavoidable coating variations may influence the determination.

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測試報告

號碼(No.) : CE/2016/C5628

日期(Date) : 2017/01/04

頁數(Page): 4 of 5

Test Report

維林企業有限公司

WELL-LIN ENTERPRISE CO., LTD.

新北市新店區寶橋路235巷12號8樓

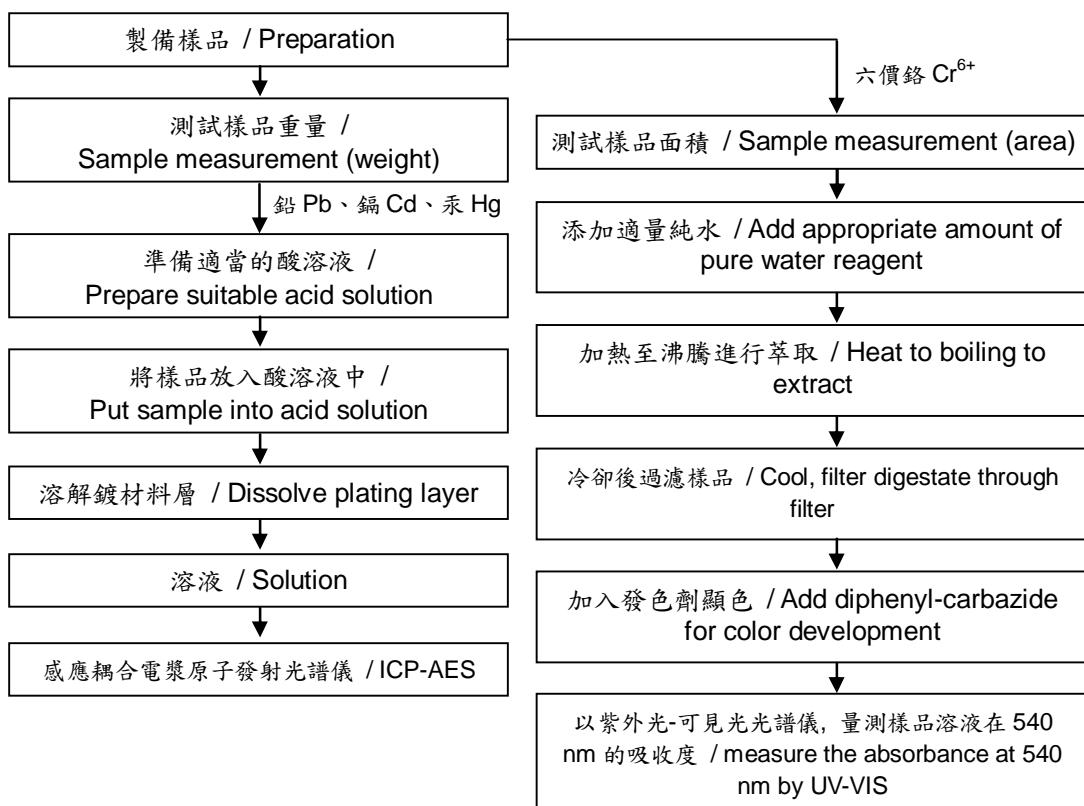
8F, NO. 12, LANE 235, PAO CHIAO RD., XINDIAN, NEW TAIPEI CITY, TAIWAN



根據以下的流程圖之條件，樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang

鍍層重金屬測試流程圖 / Flow Chart of Stripping method for metal analysis



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日期(Date) : 2017/01/04

頁數(Page): 5 of 5

Test Report

維林企業有限公司

WELL-LIN ENTERPRISE CO., LTD.

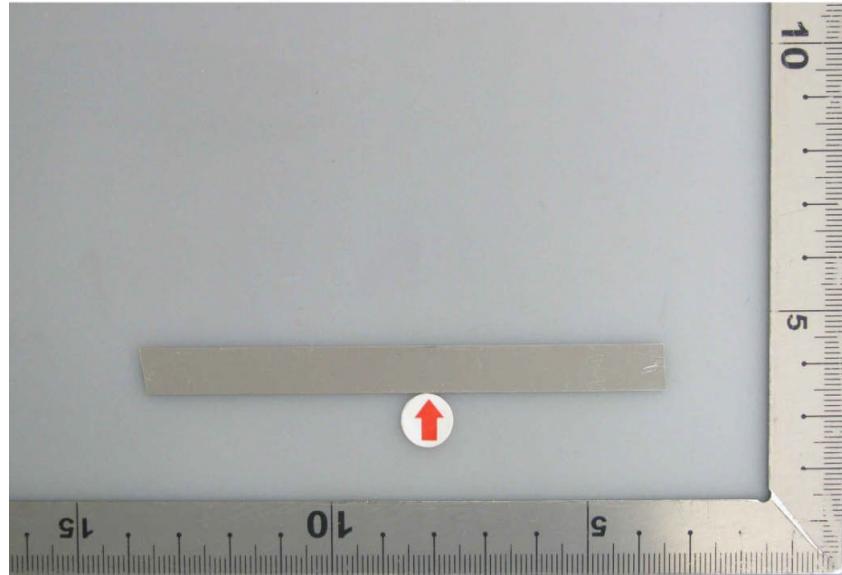
新北市新店區寶橋路235巷12號8樓

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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.)

CE/2016/C5628

** 報告結尾 (End of Report) **

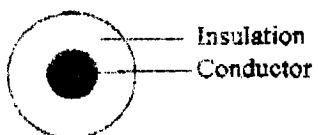
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德安電線電纜股份有限公司

DER AN ELECTRIC WIRE & CABLE CO., LTD.

UL STYLE: 1571 80°C 30V

USE: FOR INTERNAL WIRING OF CLASS 2 CIRCUITS IN ELECTRONIC EQUIPMENT



ITEM		DESCRIPTION
No. of Core 芯線數		1 Cores 芯
Conductor 等體	Material 材質	Tinned Copper Wire Stranded 鎏銻銅絞線
	Construction 結構	28AWG ; 7 strands (股) / 0.127 ± 0.008 mm
Insulation 絝緣	Material 材質	SR-PVC
	Thickness 厚度	0.23 mm
	Diameter 外徑	0.84 ± 0.05 mm

Marking: None

ELECTRICAL PROPERTIES

1. Voltage rating(額定電壓) : 30V
2. Temperature rating(額定溫度) : 80°C
3. Spark Test (火花電壓) : Min. AC-500V
4. Dielectric Strength (耐壓強度) : Min. AC-500V/ 1 min
5. Insulation resistance (絕緣電阻) : Min. 2.5 Mega Ohms-km at 20°C
6. Conductor resistance (導體電阻) : Max. 237 Ohms/km at 20°C

PHYSICAL PROPERTIES

1. Flame Test of Cable (耐燃測試) : VW-1 (芯線垂直燃燒)
2. Deformation(加熱變形試驗) : Max. 50% @ 121°C , 1 Hour
3. Heat Shock Test (熱衝擊試驗) : No Crack @ 121°C , 1 Hour
4. Cold Bend Test (冷彎試驗) : No Crack @ -10°C , 1 Hour

DRWN.	Jiang	SPEC NO.: D0500	Construction: 28AWG x 1C
APPD.		DATE: Jan.-31-2000	



Test Report

No. CANEC1602794102

Date: 04 Mar 2016

Page 1 of 6

JIAXAN PLASTIC (SHENZHEN) CO.,LTD

3TH INDUSTRIAL ZONE,BITOU VILLAGE,SONGGANG TOWN,BAOAN DISTRICT,SHENZHEN
CITY,GUANGDONG PROVINCE
518105, CHINA

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

SGS Job No. : CP16-008813 - SZ

Client Ref. Info. : SR-PVC

Date of Sample Received : 01 Mar 2016

Testing Period : 01 Mar 2016 - 04 Mar 2016

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) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Merry

Merry Lv
Approved Signatory



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Test Report

No. CANEC1602794102

Date: 04 Mar 2016

Page 2 of 6

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN16-027941.001	Red plastic grains

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to 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 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
 - (6)With reference to EN 14372:2004, determination of phthalates by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
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



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Test Report

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Monobromodiphenyl ether	-	mg/kg	5	ND
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
Dibutyl phthalate (DBP)	1,000	mg/kg	30	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	30	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	30	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	30	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

Remark: Results & photo(s) of this report refer to test report CANEC1602794101.



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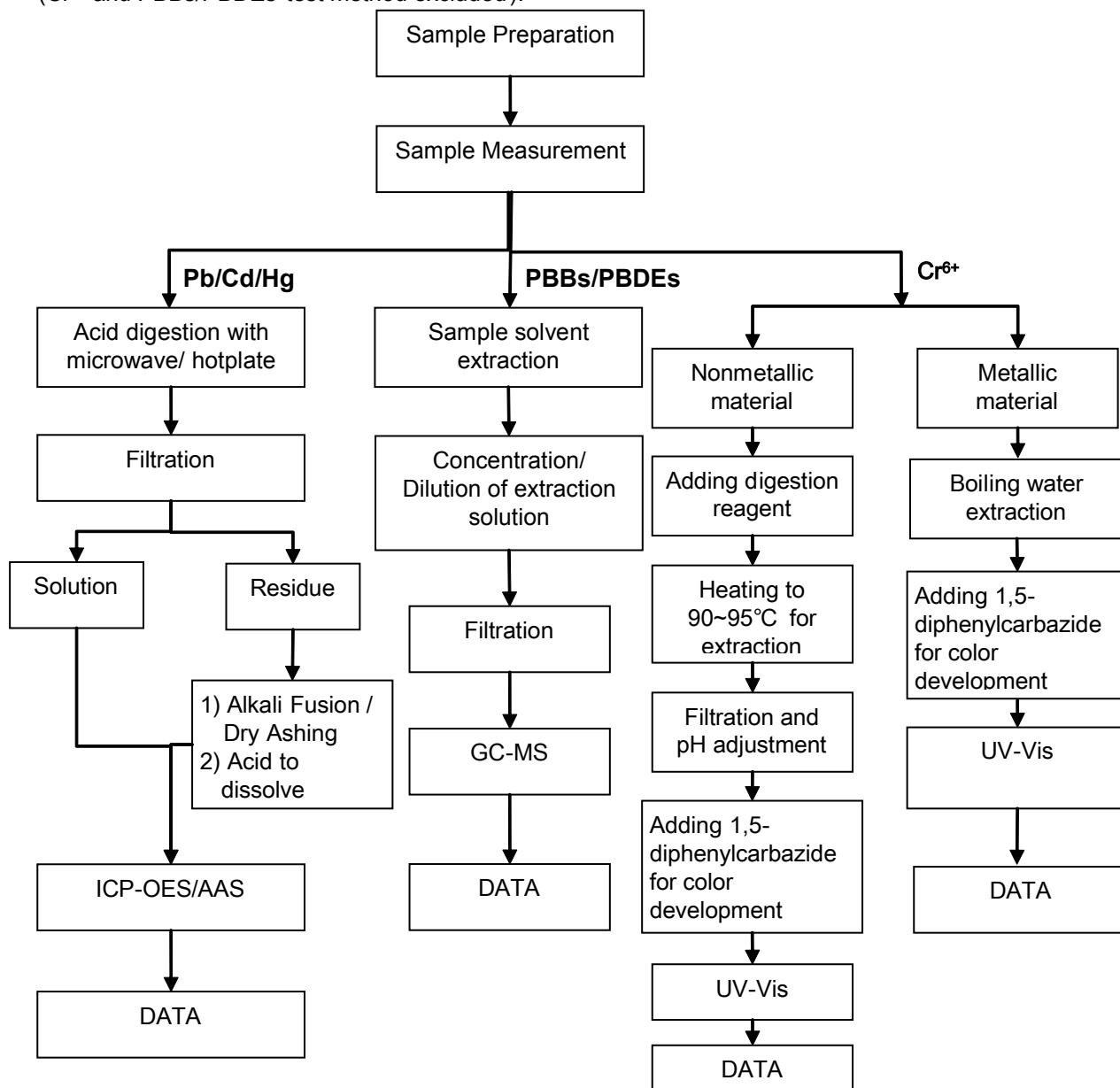
Date: 04 Mar 2016

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ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 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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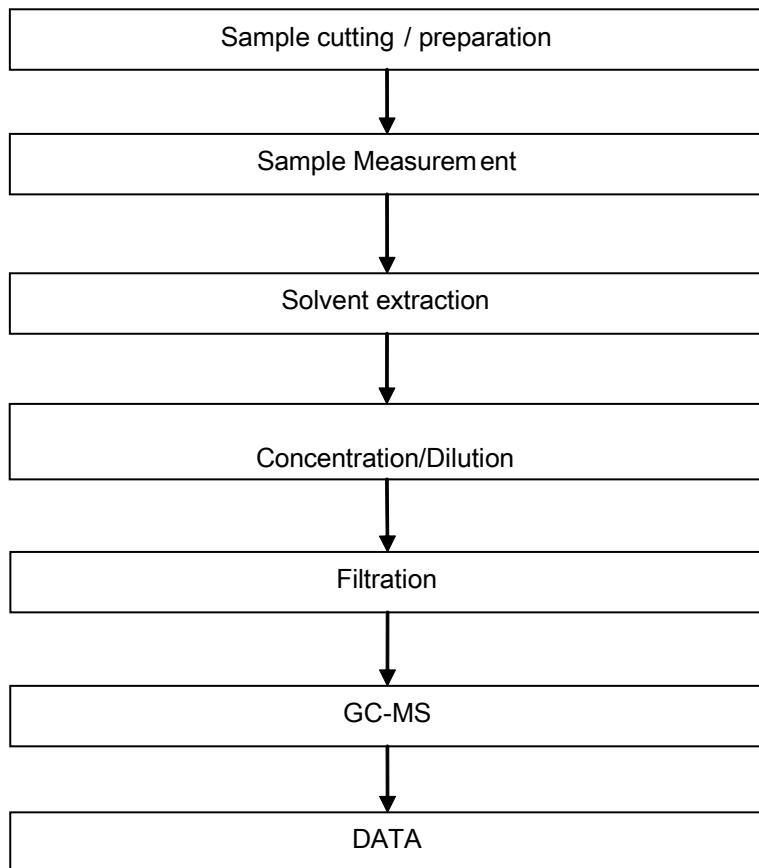
Date: 04 Mar 2016

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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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Sample photo:



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Test Report

No. CANEC1602791102

Date: 09 Mar 2016

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JIAXAN PLASTIC (SHENZHEN) CO.,LTD

3TH INDUSTRIAL ZONE,BITOU VILLAGE,SONGGANG TOWN,BAOAN DISTRICT,SHENZHEN
CITY,GUANGDONG PROVINCE
518105, CHINA

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

SGS Job No. : CP16-008813 - SZ

Client Ref. Info. : SR-PVC

Date of Sample Received : 01 Mar 2016

Testing Period : 01 Mar 2016 - 04 Mar 2016

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) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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



Alkene Liang
Approved Signatory



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Test Report

No. CANEC1602791102

Date: 09 Mar 2016

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN16-027911.001	Brown plastic grains

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to 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 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
(6)With reference to EN 14372:2004, determination of phthalates by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
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



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Monobromodiphenyl ether	-	mg/kg	5	ND
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
Dibutyl phthalate (DBP)	1,000	mg/kg	30	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	30	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	30	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	30	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

Remark: Results & photo(s) of this report refer to test report CANEC1602791101.



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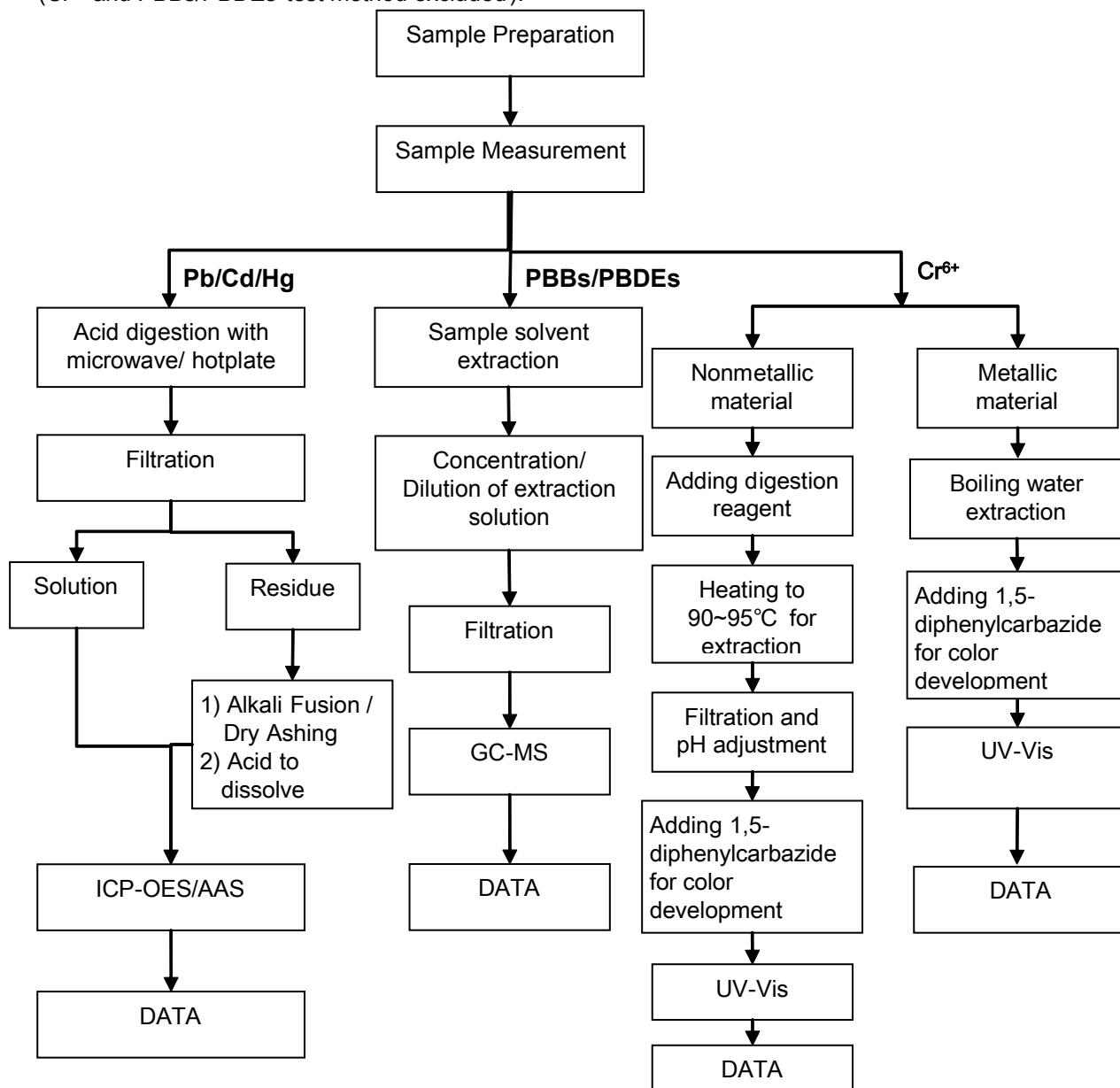
Date: 09 Mar 2016

Page 4 of 6

ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 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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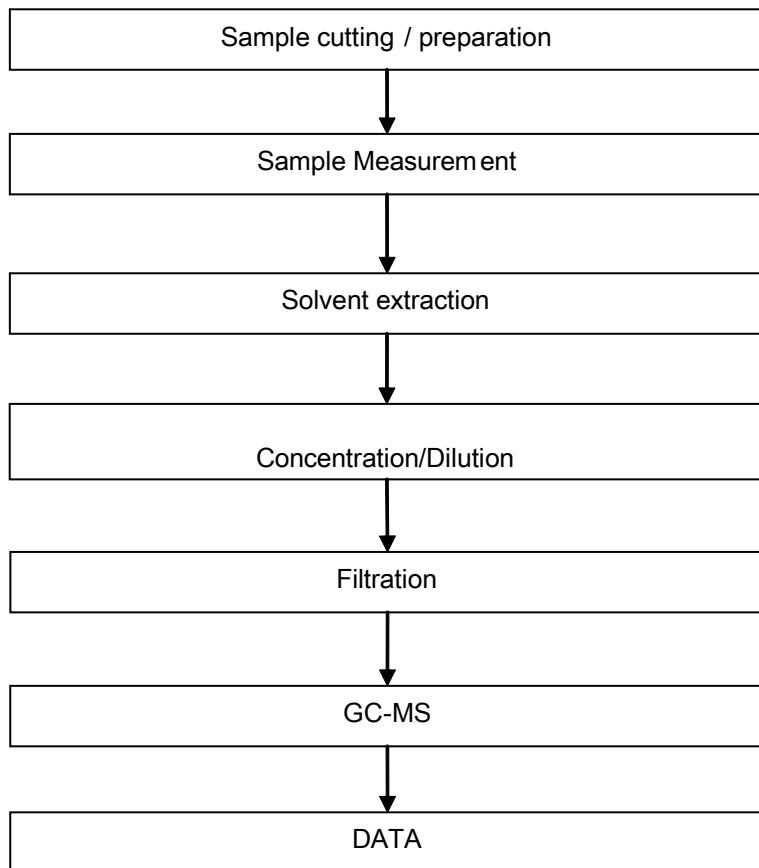
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Phthalates Testing Flow Chart

- 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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Sample photo:



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Test Report

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Date: 10 Mar 2016

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JIAXAN PLASTIC (SHENZHEN) CO.,LTD

3TH INDUSTRIAL ZONE,BITOU VILLAGE,SONGGANG TOWN,BAOAN DISTRICT,SHENZHEN
CITY,GUANGDONG PROVINCE
518105, CHINA

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

SGS Job No. : CP16-008813 - SZ

Client Ref. Info. : SR-PVC

Date of Sample Received : 01 Mar 2016

Testing Period : 01 Mar 2016 - 09 Mar 2016

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) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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



Alkene Liang
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN16-027834.001	Black plastic grains

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to 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 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
(6)With reference to EN 14372:2004, determination of phthalates by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
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



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Monobromodiphenyl ether	-	mg/kg	5	ND
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
Dibutyl phthalate (DBP)	1,000	mg/kg	30	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	30	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	30	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	30	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

Remark: Results & photo(s) of this report refer to test report CANEC1602783401.



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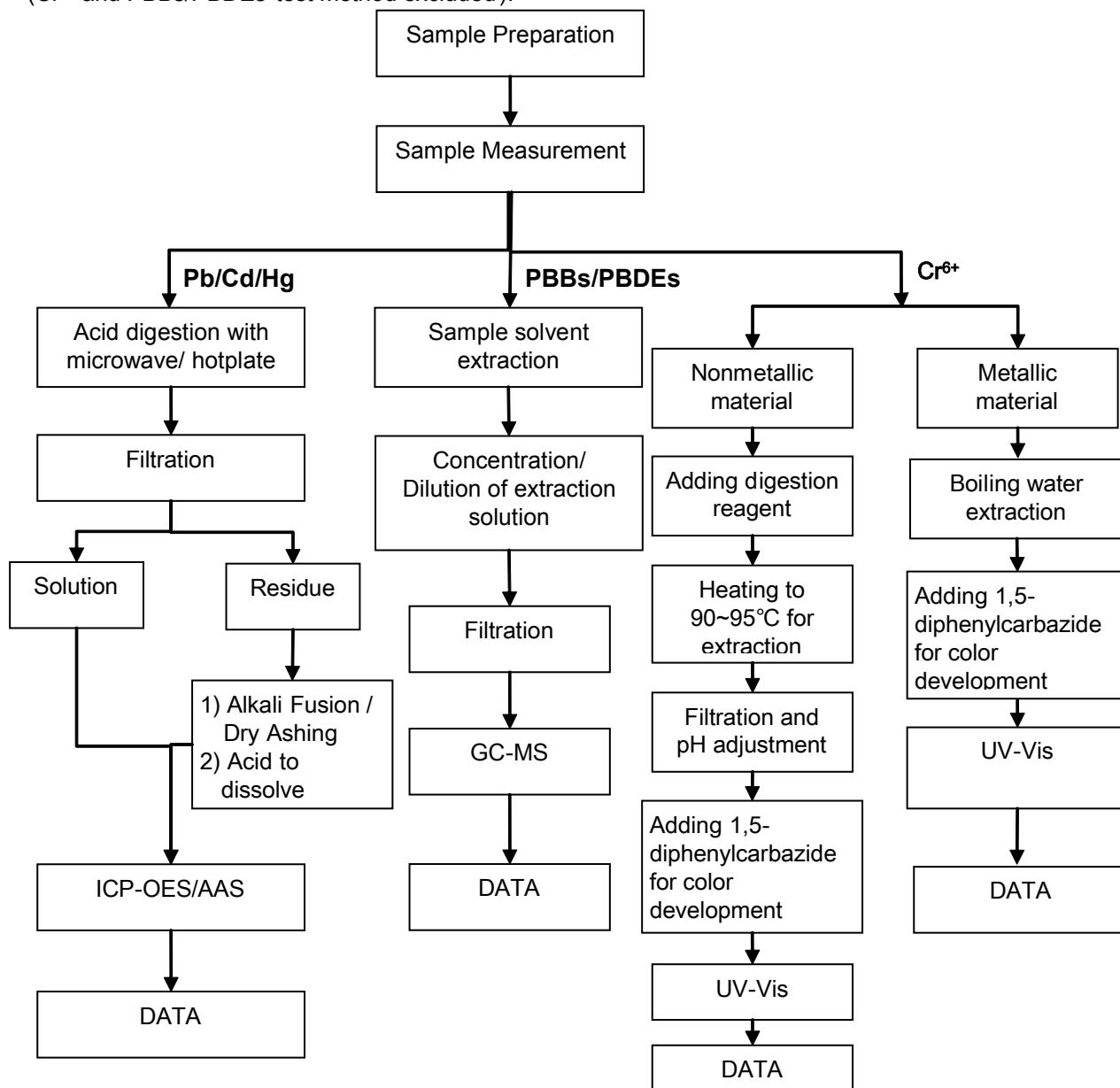
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ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 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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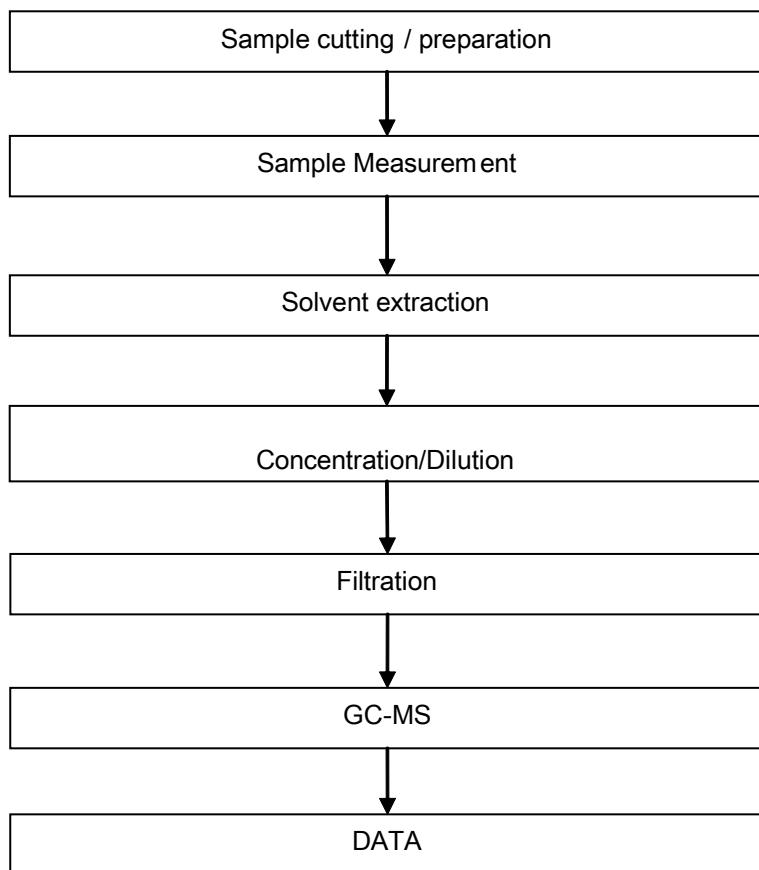
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Phthalates Testing Flow Chart

- 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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測試報告 Test Report

號碼(No.) : CE/2016/32568 日期(Date) : 2016/03/15

頁數(Page) : 1 of 8

嘉峰金屬股份有限公司
LI CHUN METALS CO., LTD.
新北市樹林區新興街37巷22號
NO. 22, LANE 37, SHIN HSING ST., SHU LIN DISTRICT, NEW TAIPEI CITY



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

送樣廠商(Sample Submitted By) : 嘉峰金屬股份有限公司 (LI CHUN METALS CO., LTD.)

樣品名稱(Sample Description) : TIN CLAD COPPER (鍍錫銅)

收件日期(Sample Receiving Date) : 2016/03/08

測試期間(Testing Period) : 2016/03/08 TO 2016/03/15

測試需求(Test Requested) :

依據客戶指定，檢測鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚，DBP, BBP, DEHP, DIBP. (As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)

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



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測試報告 Test Report

號碼(No.) : CE/2016/32568 日期(Date) : 2016/03/15

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嘉峰金屬股份有限公司
LI CHUN METALS CO., LTD.
新北市樹林區新興街37巷22號
NO. 22, LANE 37, SHIN HSING ST., SHU LIN DISTRICT, NEW TAIPEI CITY



測試結果(Test Results)

測試部位(PART NAME)No. 1 : 銀色金屬線 (含鍍層) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
			No. 1	No. 1
鎘 / 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		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)(#2)	μg/cm ²	參考 IEC 62321-7-1:2015，以UV-VIS檢測。/ With reference to IEC 62321-7-1:2015 and performed by UV-VIS.	0.10	n. d.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	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.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		50	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	mg/kg		50	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.

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測試報告 Test Report

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NO. 22, LANE 37, SHIN HSING ST., SHU LIN DISTRICT, NEW TAIPEI CITY



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (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		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.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考 IEC 62321-6: 2015 方法，以氣相層析/質譜儀檢測。/ With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	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		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.

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NO. 22, LANE 37, SHIN HSING ST., SHU LIN DISTRICT, NEW TAIPEI CITY

**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. (#2) =
 - a. 當六價鉻結果大於 $0.13 \mu\text{g}/\text{cm}^2$ ，表示樣品表層含有六價鉻。/ The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI).
 - b. 當六價鉻結果為n. d. (濃度小於 $0.10 \mu\text{g}/\text{cm}^2$)，表示表層不含六價鉻。/ The sample is negative for Cr(VI) if Cr(VI) is n. d. (concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The coating is considered a non-Cr(VI) based coating
 - c. 當六價鉻結果介於 0.10 及 $0.13 \mu\text{g}/\text{cm}^2$ 時，無法確定塗層是否含有六價鉻。/ The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive - unavoidable coating variations may influence the determination.
6. 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別單一材質的含量。
(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.)

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測試報告

Test Report

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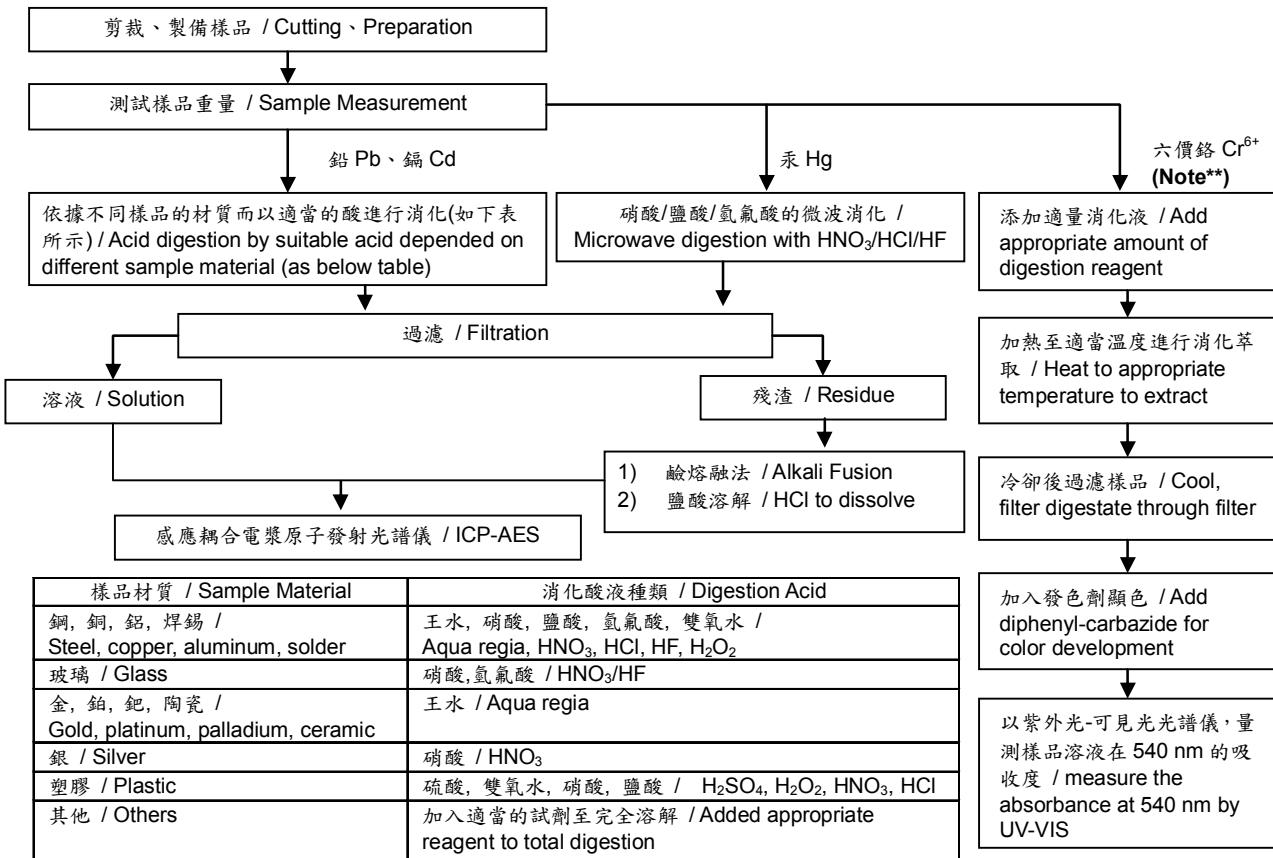
嘉峰金屬股份有限公司
LI CHUN METALS CO., LTD.
新北市樹林區新興街37巷22號
NO. 22, LANE 37, SHIN HSING ST., SHU LIN DISTRICT, NEW TAIPEI CITY



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)

- 測試人員：楊登偉 / Technician : Climbgreat Yang
- 測試負責人：張啟興 / Supervisor: Troy Chang

**Note** (For IEC 62321)**

- (1) 對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。/ For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
- (2) 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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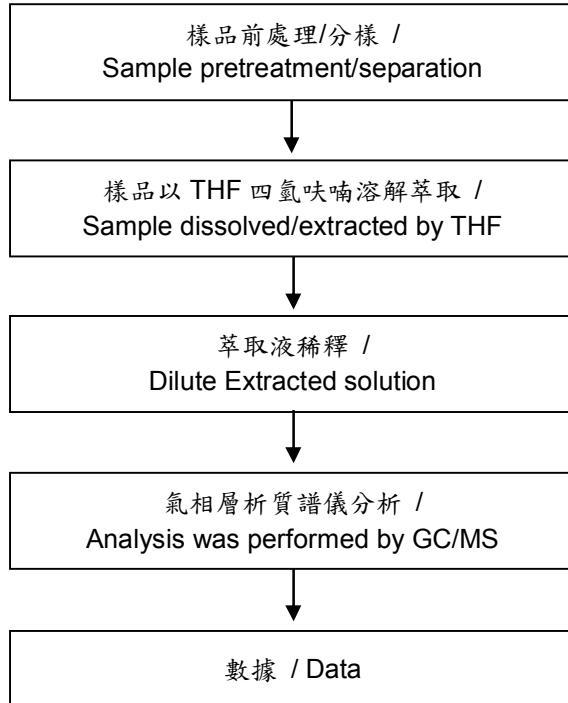
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor nt: Troy Chang

【測試方法/Test method: IEC 62321-8】



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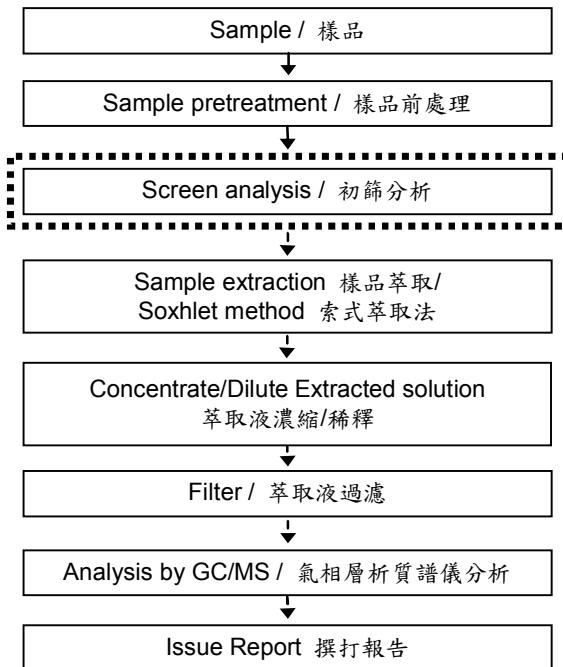
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LI CHUN METALS CO., LTD.
新北市樹林區新興街37巷22號
NO. 22, LANE 37, SHIN HSING ST., SHU LIN DISTRICT, NEW TAIPEI CITY



多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：翁賜彬 / Technician: Roman Wong
- 測試負責人：張啟興 / Supervisor: 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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* 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/2016/32568



** 報告結尾 (End of Report) **

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檢測報告

Test Report

報告編號 ECL01I014311001E
Report No. ECL01I014311001E

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Page 1 of 10

申請單位 漢保實業股份有限公司
Applicant HAMBURG INDUSTRIES CO.,LTD.
地址 222 新北市深坑區北深路三段 270 巷 12 號 6 樓
Address 6F, NO.12, LANE 270, SEC.3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222

以下測試之樣品及樣品信息由申請者提供並確認

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

樣品名稱 Sample Name	環保阻燃熱收縮套管(無鹵)
樣品型號 Part No.	HAMBURG-A H-2& H-2(CB)
樣品批號 Item/Lot No.	15121001960
材料名稱 Material	Polyolefin
樣品接收日期 Sample Received Date	2016.03.23
樣品檢測日期 Testing Period	Mar. 23, 2016 to Mar. 28, 2016
檢測要求	根據客戶要求, 對所提交樣品中的鉛(Pb), 鎘(Cd), 水銀(Hg), 六價鉻(Cr(VI)), 多溴聯苯(PBBs), 多溴二苯醚(PBDEs), 氟(F), 氯(Cl), 溴(Br), 碘(I), 六溴環十二烷(HBCDD), 四溴雙酚 A(TBBP-A), 全氟辛烷磺酸鹽(PFOS), 全氟辛烷酸(PFOA), 三氧化二銻(Sb ₂ O ₃), 鄰苯二甲酸酯進行測試。 As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs) , Polybrominated Diphenyl Ethers(PBDEs), Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I), Hexabromocyclododecane (HBCDD), Tetrabromobisphenol-A(TBBP-A), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA), Diantimony trioxide(Sb ₂ O ₃), Phthalates in the submitted sample(s).
Test Requested	

檢測依據和檢測結果：請參見下頁

Test Method & Test Result : Please refer to following pages.

主 檢
Tested by

審 核
Reviewed by

顧 翠 丽



蘇紅偉

實驗室高級經理 Senior Laboratory Manager

日 期
Date

2016.03.28

報告專用章
上海華測品標檢測技術有限公司
Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No. T172791980

上海市浦東新區新金橋路 1996 號

No. 1996, Xinjinqiao Road, Pudong New District, Shanghai, China

檢測報告

Test Report

報告編號 ECL01I014311001E
 Report No. ECL01I014311001E

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 Page 2 of 10

檢測依據 Test Method

測試項目 Tested Item	測試方法 Test Method	測試儀器 Measured Equipment
鉛(Pb) Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
鎘(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
六價鉻(Cr(VI)) Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
多溴聯苯(PBBs) Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚(PBDEs) Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
氟(F) Fluorine(F)	參考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
氯(Cl) Chlorine Cl)	參考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
溴(Br) Bromine(Br)	參考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
碘(I) Iodine(I)	參考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
六溴環十二烷(HBCDD) Hexabromocyclododecane (HBCDD)	參考 IEC 62321:2008 Refer to IEC 62321:2008	GC-MS
全氟辛烷酸(PFOA) Perfluorooctanoic Acid (PFOA)	參考 US EPA 3550C:2007 & US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
全氟辛烷磺酸鹽(PFOS) Perfluorooctane Sulfonates (PFOS)	參考 US EPA 3550C:2007 & US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
鄰苯二甲酸酯 Phthalates	參考 IEC 62321-8 CDV Refer to IEC 62321-8 CDV	GC-MS
三氧化二銻(Sb ₂ O ₃) Diantimony trioxide(Sb ₂ O ₃)	參考 US EPA 3052:1996 Refer to US EPA 3052:1996	ICP-OES
四溴雙酚 A (TBBP-A) Tetrabromobisphenol-A (TBBP-A)	參考 US EPA 3550C:2007 & &US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS

檢測報告

Test Report

報告編號 ECL01I014311001E
Report No. ECL01I014311001E

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檢測結果 Test Result

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
鉛 Lead (Pb)	N.D.	2mg/kg
鎘 Cadmium (Cd)	N.D.	2mg/kg
汞 Mercury (Hg)	N.D.	2mg/kg
六價鉻 Hexavalent Chromium (Cr(VI))	N.D.	2mg/kg
多溴聯苯 Polybrominated Biphenyls(PBBs)		
一溴聯苯 Monobromodiphenyl	N.D.	5mg/kg
二溴聯苯 Dibromobiphenyl	N.D.	5mg/kg
三溴聯苯 Tribromobiphenyl	N.D.	5mg/kg
四溴聯苯 Tetrabromobiphenyl	N.D.	5mg/kg
五溴聯苯 Pentabromobiphenyl	N.D.	5mg/kg
六溴聯苯 Hexabromobiphenyl	N.D.	5mg/kg
七溴聯苯 Heptabromobiphenyl	N.D.	5mg/kg
八溴聯苯 Octabromobiphenyl	N.D.	5mg/kg
九溴聯苯 Nonabromobiphenyl	N.D.	5mg/kg
十溴聯苯 Decabromobiphenyl	N.D.	5mg/kg
多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5mg/kg
二溴二苯醚 Dibromobiphenyl ether	N.D.	5mg/kg
三溴二苯醚 Tribromobiphenyl ether	N.D.	5mg/kg
四溴二苯醚 Tetrabromobiphenyl ether	N.D.	5mg/kg
五溴二苯醚 Pentabromobiphenyl ether	N.D.	5mg/kg
六溴二苯醚 Hexabromobiphenyl ether	N.D.	5mg/kg
七溴二苯醚 Heptabromobiphenyl ether	N.D.	5mg/kg
八溴二苯醚 Octabromobiphenyl ether	N.D.	5mg/kg
九溴二苯醚 Nonabromobiphenyl ether	N.D.	5mg/kg
十溴二苯醚 Decabromobiphenyl ether	N.D.	5mg/kg

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測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
鹵素 Halogen		
氟 Fluorine (F)	N.D.	10mg/kg
氯 Chlorine (Cl)	N.D.	10mg/kg
溴 Bromine (Br)	N.D.	10mg/kg
碘 Iodine (I)	N.D.	10mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
鄰苯二甲酸酯 Phthalates		
鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP)CAS#:84-69-5	N.D.	50mg/kg
鄰苯二甲酸二正丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50mg/kg
鄰苯二甲酸丁基苄酯 Benzylbutyl phthalate (BBP) CAS#:85-68-7	N.D.	50mg/kg
鄰苯二甲酸二(2-乙基己基)酯 Bis(2-ethyl(hexyl)) phthalate (DEHP) CAS#:117-81-7	N.D.	50mg/kg
鄰苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP)CAS#:117-84-0	N.D.	50mg/kg
鄰苯二甲酸二異壬酯 Diisononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50mg/kg
鄰苯二甲酸二異癸酯 Diisodecyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50mg/kg
鄰苯二甲酸二己酯 Di-n-hexyl phthalate (DNHP)CAS#:84-75-3	N.D.	50mg/kg

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測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
六溴環十二烷(HBCDD) Hexabromocyclododecane (HBCDD)	N.D.	5mg/kg
全氟辛烷酸(PFOA) Perfluorooctanoic Acid (PFOA)	N.D.	5mg/kg
全氟辛烷磺酸鹽(PFOS) Perfluorooctane Sulfonates (PFOS)	N.D.	5mg/kg
四溴雙酚 A (TBBP-A) Tetrabromobisphenol-A (TBBP-A)	N.D.	5mg/kg
三氧化二銻(Sb ₂ O ₃) * Diantimony trioxide (Sb ₂ O ₃) *	N.D.	5 mg/kg

測試樣品/部位描述 黑色熱縮管(不含油墨)
Tested Sample/Part Description Black heat shrink able tube(Excluding the white printed)

備註: 對於檢測鉛, 鋨, 汞之樣品已完全溶解。

-N.D. = 未檢出 (小於方法檢出限)

-mg/kg = ppm = 百萬分之一

-* = 三氧化二銻的結果是由銻(Sb)的測試結果換算而來。

其方法檢出限是針對元素銻(Sb)之評估。

Remark: The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-* = Calculated result of Diantimony trioxide is based on the result of Antimony(Sb).

The MDL is evaluated for element Antimony(Sb).

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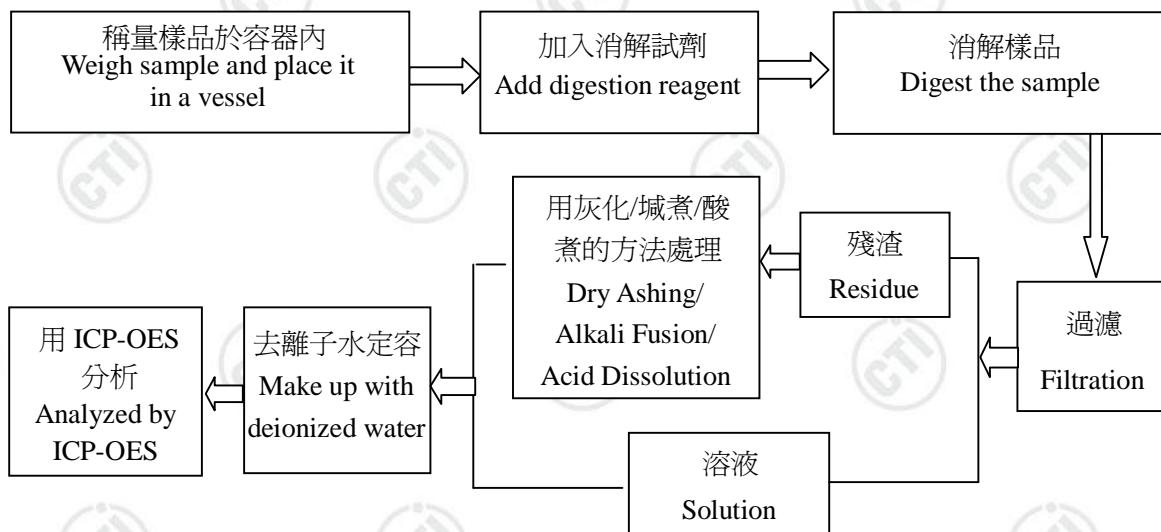
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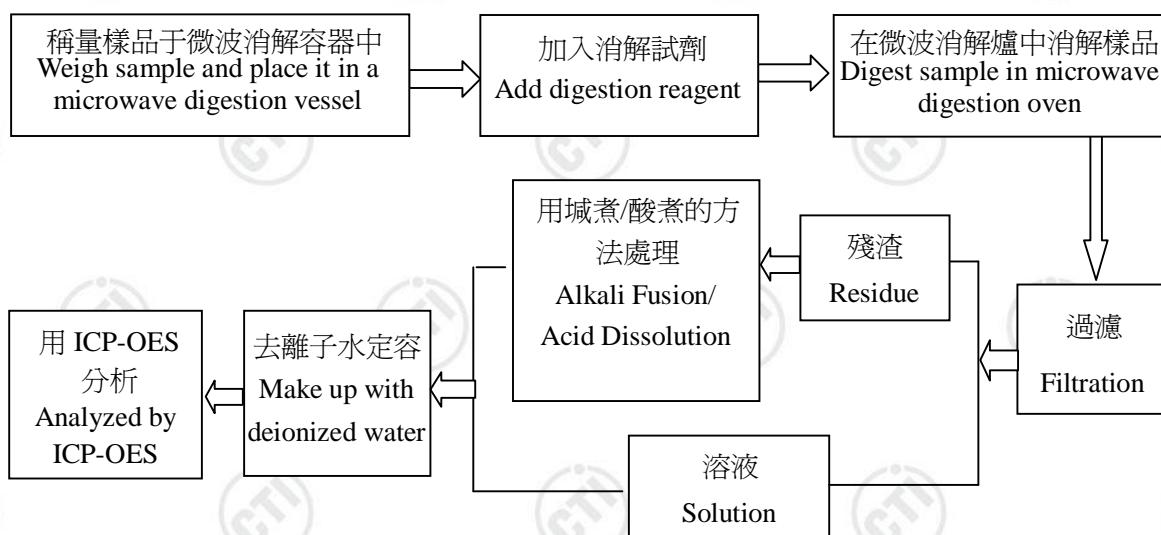
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檢測流程 Test Process

1. 鉛(Pb), 鎘(Cd) Lead(Pb), Cadmium(Cd)



2. 水銀(Hg) Mercury (Hg)



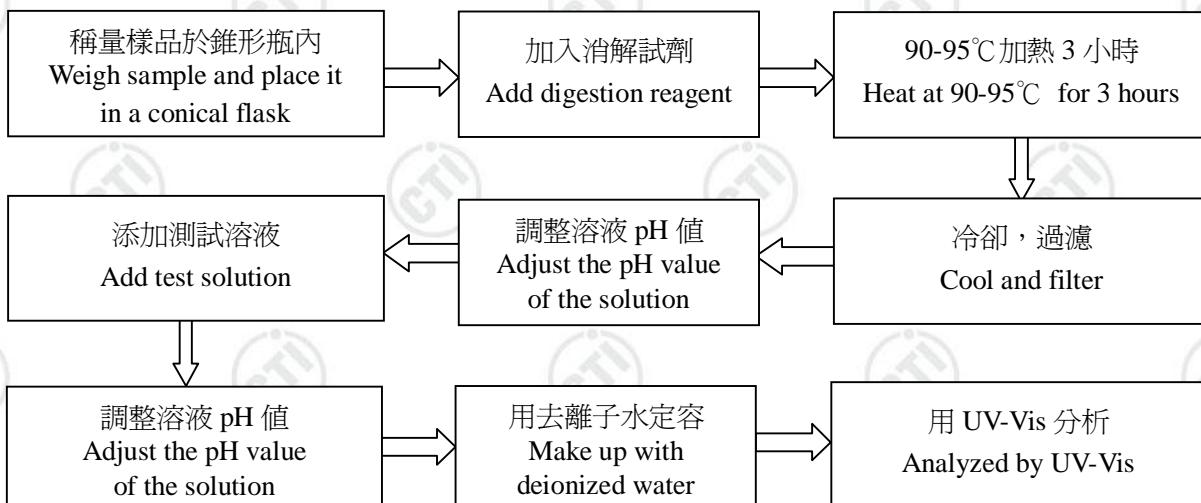
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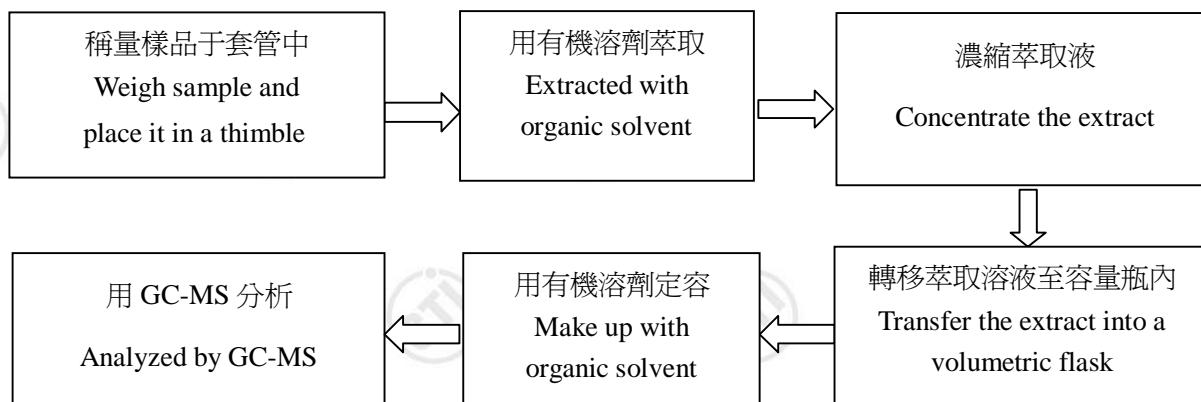
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3. 六價鉻(Cr(VI)) Hexavalent Chromium (Cr(VI))

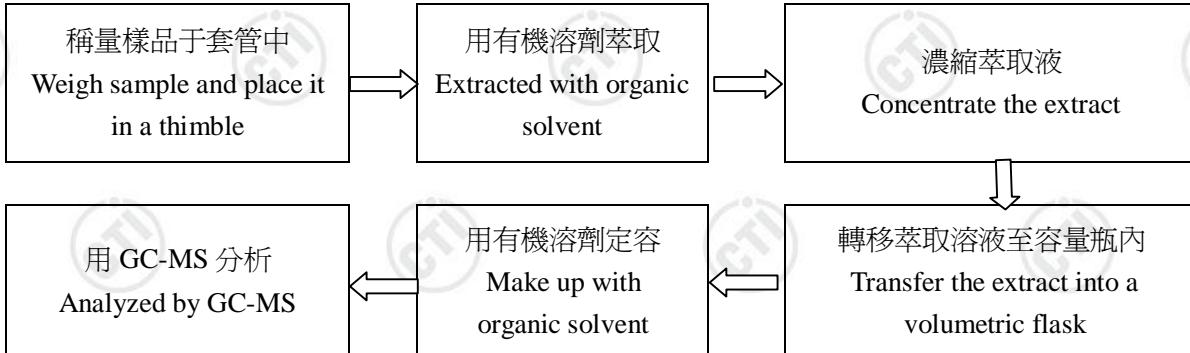


4. 多溴聯苯(PBBs)，多溴二苯醚(PBDEs)

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. 鄰苯二甲酸酯 Phthalates



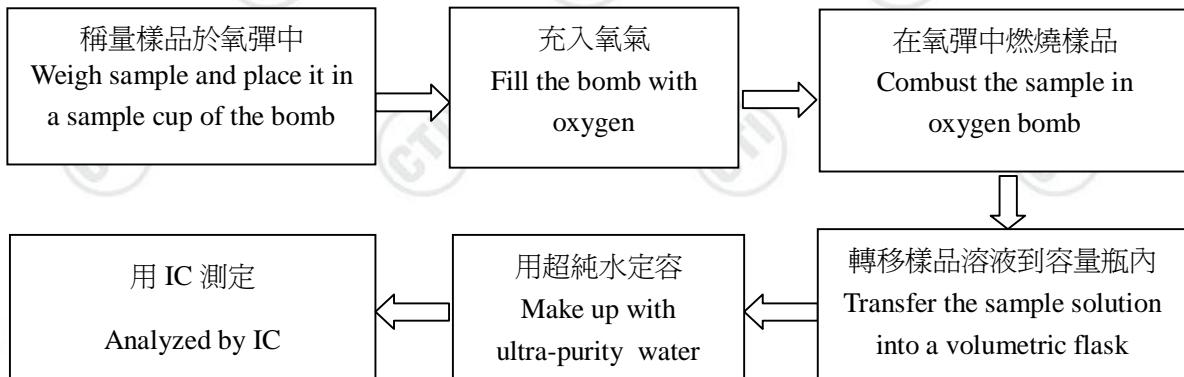
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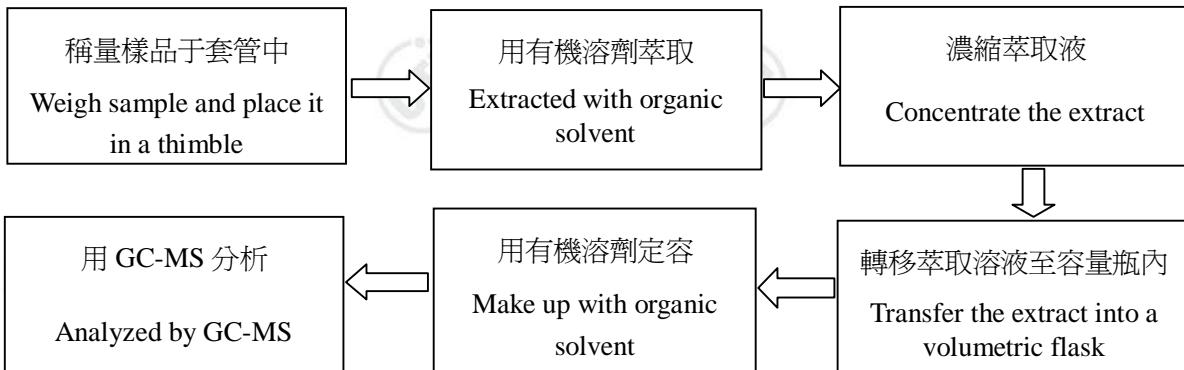
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6. 氟(F), 氯(Cl), 溴(Br), 碘(I) Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)

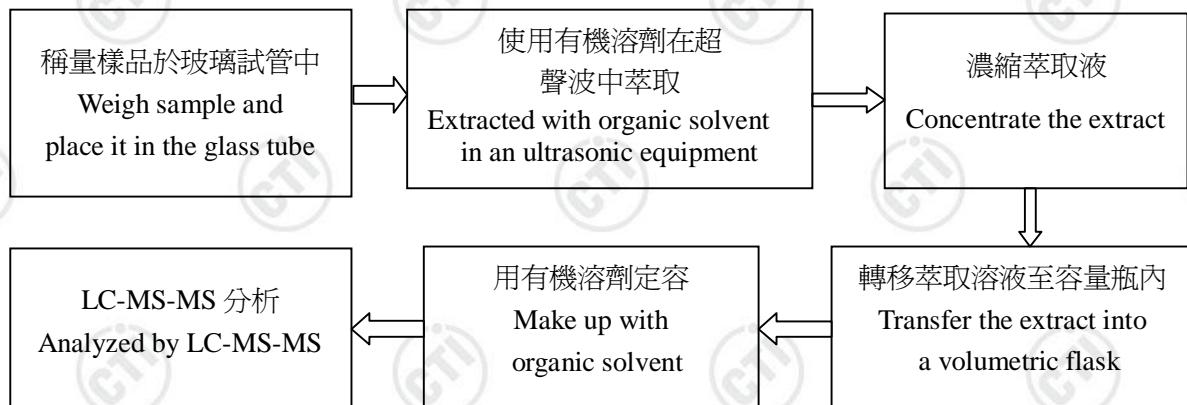


7. 六溴環十二烷(HBCDD) Hexabromocyclododecane (HBCDD)



8. 全氟辛烷酸(PFOA),全氟辛烷磺酸鹽(PFOS)

Perfluoroctanoic Acid (PFOA) ,Perfluorooctane Sulfonates(PFOS)



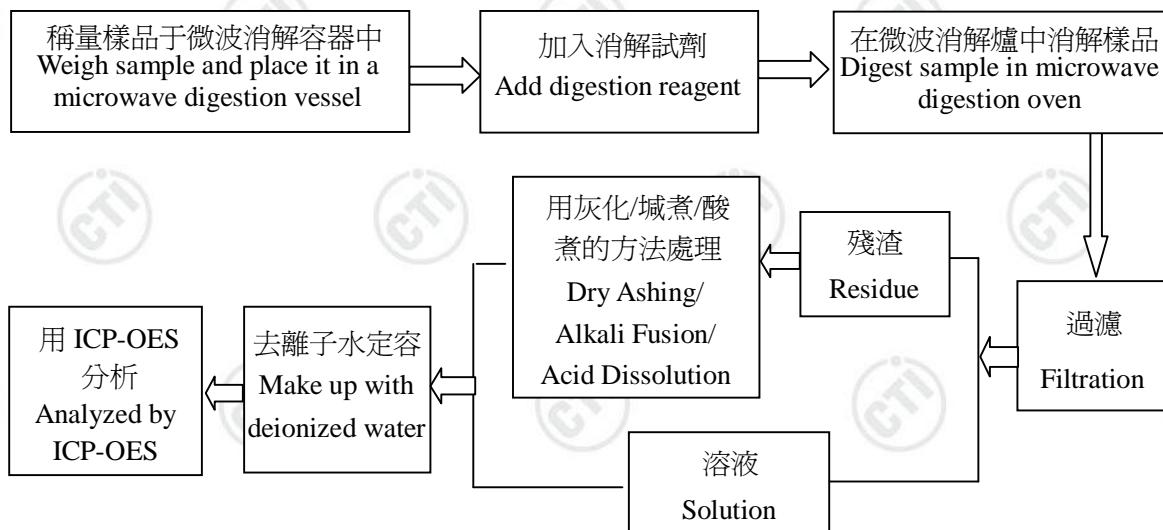
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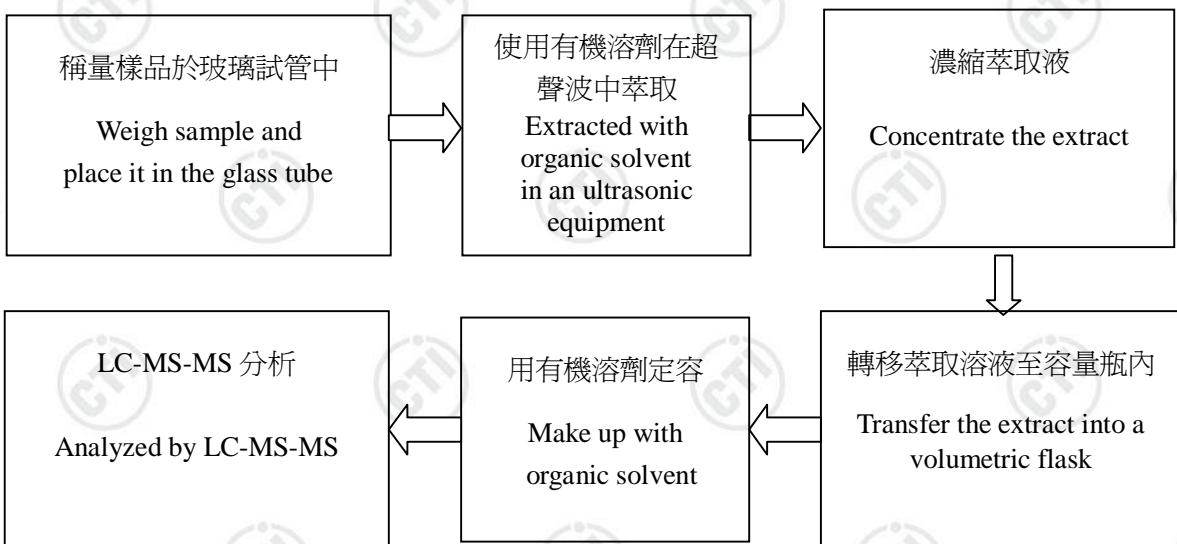
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9. 三氧化二銻(Sb₂O₃) Diantimony trioxide (Sb₂O₃)



10. 四溴雙酚 A (TBBP-A) Tetrabromobisphenol-A (TBBP-A)



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樣品圖片 Photo(s) of the sample(s)



*** 報告結束 ***

***End of report ***

檢測報告無批准人簽字及“報告專用章”無效，本報告檢測結果僅對受測樣品負責。未經 CTI 書面同意，不得部分複製本報告。

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

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申請單位 漢保實業股份有限公司
Applicant HAMBURG INDUSTRIES CO.,LTD.
地 址 222 新北市深坑區北深路三段 270 巷 12 號 6 樓
Address 6F., NO.12, LANE 270, SEC.3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222

以下測試之樣品及樣品信息由申請者提供並確認 The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

樣品名稱 Sample Name 環保阻燃熱收縮套管(無鹵) Heat Shrinkable Polyolefin Tubing (Halogen Free)
樣品型號 Part No. HAMBURG-A H-2& H-2(CB)
樣品批號 Item/Lot No. 15121001960
材料名稱 Material Polyolefin
樣品接收日期 Sample Received Date 2016.03.23
樣品檢測日期 Testing Period Mar. 23, 2016 to Mar. 29, 2016

檢測要求 根據客戶要求, 參照法規(EC) No 1907/2006(REACH), 對所提交樣品中 168 種高關注物質(SVHC)進行篩選測試。

Test Requested As specified by client, to screen the 168 substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

檢測依據/檢測結果 請參見下頁。

Test Method/Test Result(s) Please refer to the following page(s).

摘要 根據分析結果, 所提交樣品中 168 種 SVHC 濃度均小於 0.1%(w/w)。

Summary According to the analytical results, concentrations of 168 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

主 檢
Tested by

王伟

審 核
Reviewed by

徐忠娟

批 准
Approved by

苏红伟

日 期
Date

2016.03.29

上海華測品標檢測技術有限公司

Centre Testing International Pinbiao(Shanghai) Co., Ltd.
 报告专用章

No. T172791876

上海市浦東新區新金橋路 1996 號

No.1996,Xinjinqiao Road, Pudong New District, Shanghai, China

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檢測結果 Test Result(s)

批次 Batch	序號 No.	物質名稱 Substance Name(s)	CAS 號 CAS No.	EC 號 EC No.	濃度 Concentration (%)	報告 檢出限 Report Limit
I	1	蒽 Anthracene	120-12-7	204-371-1	N.D.	0.005%
I	2	4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	N.D.	0.005%
I	3	鄰苯二甲酸二丁酯 Dibutyl phthalate(DBP)	84-74-2	201-557-4	N.D.	0.005%
I	4	二氯化鈷 Cobalt dichloride*	7646-79-9	231-589-4	N.D.	0.01%
I	5	五氧化二砷 Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.	0.01%
I	6	三氧化二砷 Diarsenic trioxide*	1327-53-3	215-481-4	N.D.	0.01%
I	7	重鉻酸鈉 Sodium dichromate*	7789-12-0 / 10588-01-9	234-190-3	N.D.	0.01%
I	8	二甲苯麝香 Musk xylene	81-15-2	201-329-4	N.D.	0.005%
I	9	鄰苯二甲酸二(2-乙基己基)酯 Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	N.D.	0.005%
I	10	六溴環十二烷 Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	247-148-4/ 221-695-9	N.D.	0.005%
I	11	短鏈氯化石蠟 Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	N.D.	0.01%
I	12	三丁基氧化錫 Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	N.D.	0.005%
I	13	砷酸氫鉛 Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.	0.01%
I	14	鄰苯二甲酸丁基苄酯 Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	N.D.	0.005%
I	15	三乙基砷酸酯 Triethyl arsenate*	15606-95-8	427-700-2	N.D.	0.01%
II	16	①蒽油 Anthracene oil	90640-80-5	292-602-7	N.D.	0.05%
II	17	①蒽油, 蔡糊, 輕油 Anthracene oil, anthracene paste, distn. Lights ****	91995-17-4	295-278-5	N.D.	0.05%

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II	18	①蒽油,蒽糊,蒽餾分 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	N.D.	0.05%
II	19	①蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7	292-604-8	N.D.	0.05%
II	20	①蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6	292-603-2	N.D.	0.05%
II	21	①煤焦油瀝青,高溫 Coal tar pitch, high temperature	65996-93-2	266-028-2	N.D.	0.05%
II	22	丙烯醯胺 Acrylamide	79-06-1	201-173-7	N.D.	0.01%
II	23	2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2	204-450-0	N.D.	0.01%
II	24	鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	N.D.	0.005%
II	25	②鉻酸鉛 Lead chromate	7758-97-6	231-846-0	N.D.	0.05%
II	26	②鉬鉻紅(C.I.顏料紅 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	N.D.	0.05%
II	27	②鉛鉻黃(C.I.顏料黃 34) Lead sulfochromate yellow(C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	N.D.	0.05%
II	28	磷酸三(2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	N.D.	0.01%
III	29	三氯乙烯 Trichloroethylene	79-01-6	201-167-4	N.D.	0.005%
III	30	③硼酸 Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	N.D.	0.01%
III	31	③四硼酸鈉, 無水 Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	N.D.	0.01%
III	32	③四硼酸鈉, 水合物 Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	N.D.	0.01%

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III	33	鉻酸鈉 Sodium chromate*	7775-11-3	231-889-5	N.D.	0.01%
III	34	鉻酸鉀 Potassium chromate*	7789-00-6	232-140-5	N.D.	0.01%
III	35	重鉻酸銨 Ammonium dichromate*	7789-09-5	232-143-1	N.D.	0.01%
III	36	重鉻酸鉀 Potassium dichromate*	7778-50-9	231-906-6	N.D.	0.01%
IV	37	硫酸鈷 Cobalt(II) sulphate*	10124-43-3	233-334-2	N.D.	0.01%
IV	38	硝酸鈷 Cobalt(II) dinitrate*	10141-05-6	233-402-1	N.D.	0.01%
IV	39	碳酸鈷 Cobalt(II) carbonate*	513-79-1	208-169-4	N.D.	0.01%
IV	40	醋酸鈷 Cobalt(II) diacetate*	71-48-7	200-755-8	N.D.	0.01%
IV	41	乙二醇單甲醚 2-Methoxyethanol	109-86-4	203-713-7	N.D.	0.005%
IV	42	乙二醇單乙醚2-Ethoxyethanol	110-80-5	203-804-1	N.D.	0.005%
IV	43	三氧化鉻 Chromium trioxide*	1333-82-0	215-607-8	N.D.	0.01%
IV	44	①從三氧化鉻產生的酸類以及 它們的齊聚物：鉻酸、重鉻酸、 鉻酸和重鉻酸的齊聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	N.D.	0.01%
V	45	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	203-839-2	N.D.	0.01%
V	46	鉻酸锶 Strontium chromate*	7789-06-2	232-142-6	N.D.	0.01%
V	47	①1,2-苯二酸-二(C7-11 支鏈與直 鏈)烷基(醇)酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	N.D.	0.01%
V	48	肼 Hydrazine	7803-57-8 302-01-2	206-114-9	N.D.	0.01%
V	49	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4	212-828-1	N.D.	0.01%

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V	50	1, 2, 3-三氯丙烷 1,2,3-trichloropropane	96-18-4	202-486-1	N.D.	0.01%
V	51	^① 鄰苯二甲酸二C6-8支鏈烷基 酯 (C7富集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	N.D.	0.01%
VI	52	鉻酸鉻 Dichromium tris(chromate)*	24613-89-6	246-356-2	N.D.	0.01%
VI	53	氫氧化鉻酸鋅鉀 Potassium hydroxyoctaoxodizincatedichro mate*	11103-86-9	234-329-8	N.D.	0.01%
VI	54	氫氧化鉻酸鋅 Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	N.D.	0.01%
VI	55	^② 矽酸鋁耐火陶瓷纖維 Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	N.D.	0.05%
VI	56	^② 氧化鋯矽酸鋁耐火陶瓷纖維 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	N.D.	0.05%
VI	57	^① 甲醛苯胺共聚物 Formaldehyde, oligomeric reaction products with aniline (technical MDA)▲	25214-70-4	500-036-1	N.D.	0.01%
VI	58	鄰苯二甲酸二甲氧基乙酯 Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	N.D.	0.005%
VI	59	2-甲氧基苯胺(鄰甲氧基苯胺) 2-Methoxyaniline (o-Anisidine)	90-04-0	201-963-1	N.D.	0.005%
VI	60	4-(1,1,3,3-四甲基丁基)苯酚 (別名：對特辛基苯酚) 4-(1,1,3,3-tetramethylbutyl) phenol (4-tert-Octylphenol)	140-66-9	205-426-2	N.D.	0.005%

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VI	61	1,2-二氯乙烷 1,2-Dichloroethane	107-06-2	203-458-1	N.D.	0.005%
VI	62	雙(2-甲氧基乙基)醚 (別名：二乙二醇二甲醚) Bis(2-methoxyethyl) ether	111-96-6	203-924-4	N.D.	0.005%
VI	63	砷酸 Arsenic acid*	7778-39-4	231-901-9	N.D.	0.01%
VI	64	砷酸鈣 Calcium arsenate*	7778-44-1	231-904-5	N.D.	0.01%
VI	65	砷酸鉛 Trilead diarsenate*	3687-31-8	222-979-5	N.D.	0.01%
VI	66	N,N-二甲基乙醯胺 N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	N.D.	0.005%
VI	67	4,4'-亞甲基雙(2-氯苯胺) 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	N.D.	0.005%
VI	68	酚酞 Phenolphthalein	77-09-8	201-004-7	N.D.	0.005%
VI	69	疊氮化鉛 Lead diazide*	13424-46-9	236-542-1	N.D.	0.01%
VI	70	2,4,6-三硝基間苯二酚鉛 (別名：收斂酸鉛) Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	N.D.	0.01%
VI	71	苦味酸鉛 Lead dipicrate*	6477-64-1	229-335-2	N.D.	0.01%
VII	72	1,2-二(2-甲氧基乙氧基)乙烷 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	N.D.	0.01%
VII	73	乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	N.D.	0.01%
VII	74	^③ 三氧化二硼 Diboron trioxide	1303-86-2	215-125-8	N.D.	0.01%
VII	75	甲醯胺 Formamide	75-12-7	200-842-0	N.D.	0.01%
VII	76	甲基磺酸鉛 Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	N.D.	0.01%

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VII	77	異氰尿酸三縮水甘油脂 TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	N.D.	0.01%
VII	78	異氰脲酸 β -三縮水甘油酯 β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	N.D.	0.01%
VII	79	4,4'-二(N,N-二甲氨基)二苯甲酮(米氏酮) 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	N.D.	0.01%
VII	80	4,4'-(對二甲氨基)二苯基甲烷 (米氏城) N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	N.D.	0.01%
VII	81	C.I. 鹼性紫 3 [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)***	548-62-9	208-953-6	N.D.	0.01%
VII	82	C.I. 鹼性藍 26 [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)***	2580-56-5	219-943-6	N.D.	0.01%
VII	83	C.I. 溶劑藍 4 α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	229-851-8	N.D.	0.01%

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VII	84	α, α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	N.D.	0.01%
VIII	85	十溴二苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	N.D.	0.05%
VIII	86	①4-壬基酚, 分支或線性的壬基酚, 包括含有 9 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 9 個碳烷基鏈的 UVCB 物質 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-	N.D.	0.05%
VIII	87	偶氮二甲醯胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	N.D.	0.05%
VIII	88	對特辛基苯酚乙氧基醚 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	N.D.	0.05%
VIII	89	全氟十一烷酸 Henicosfluoroundecanoic acid	2058-94-8	218-165-4	N.D.	0.05%

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VIII	90	全氟十三酸 Pentacosfluorotridecanoic acid	72629-94-8	276-745-2	N.D.	0.05%
VIII	91	六氫鄰苯二甲酸酐, 順式-六氫鄰苯二甲酸酐, 反式-六氫鄰苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxy lic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	N.D.	0.05%
VIII	92	甲基六氫苯酐, 4-甲基六氫苯酐, 1-甲基六氫化鄰苯二甲酸酐, 3-甲基六氫苯二甲酯酐 Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	N.D.	0.05%
VIII	93	全氟十四酸 Heptacosfluorotetradecanoic acid	376-06-7	206-803-4	N.D.	0.05%
VIII	94	鄰苯二甲酸二異戊酯 Diisopentylphthalate(DIPP)	605-50-5	210-088-4	N.D.	0.005%
VIII	95	^① 支鏈和直鏈 1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	N.D.	0.01%
VIII	96	鄰苯二甲酸正戊基異戊基酯 N-pentyl-isopentylphthalate	776297-69-9	-	N.D.	0.005%

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VIII	97	甲氧基乙酸 Methoxyacetic acid	625-45-6	210-894-6	N.D.	0.05%
VIII	98	全氟十二烷酸 Tricosafluorododecanoic acid	307-55-1	206-203-2	N.D.	0.05%
VIII	99	乙二醇二乙醚 1,2-Diethoxyethane	629-14-1	211-076-1	N.D.	0.05%
VIII	100	3-乙基-2-甲基-2-(3-甲基丁基) 噁唑烷 3-ethyl-2-methyl-2- (3-methylbutyl)-1, 3-oxazolidine	143860-04-2	421-150-7	N.D.	0.05%
VIII	101	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	N.D.	0.05%
VIII	102	N-甲基乙醯胺 N-methylacetamide	79-16-3	201-182-6	N.D.	0.05%
VIII	103	氧化鉛與硫酸鉛的複合物 Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	N.D.	0.01%
VIII	104	4-氨基聯苯 Biphenyl-4-ylamine	92-67-1	202-177-1	N.D.	0.05%
VIII	105	地樂酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	N.D.	0.05%
VIII	106	雙(十八酸基)二氫代三鉛 Dioxobis(stearato)trilead*	12578-12-0	235-702-8	N.D.	0.01%
VIII	107	硝酸鉛 Lead dinitrate*	10099-74-8	233-245-9	N.D.	0.01%
VIII	108	三域式硫酸鉛 Tetralead trioxide sulphate*	12202-17-4	235-380-9	N.D.	0.01%
VIII	109	氧化鉛 Lead monoxide (lead oxide)*	1317-36-8	215-267-0	N.D.	0.01%
VIII	110	鈦酸鉛 Lead titanium trioxide*	12060-00-3	235-038-9	N.D.	0.01%
VIII	111	4,4'-二氨基-3,3'-二甲基二苯甲 烷 4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	N.D.	0.05%
VIII	112	城式乙酸鉛 Acetic acid, lead salt, basic*	51404-69-4	257-175-3	N.D.	0.01%
VIII	113	硫酸二甲酯 Dimethyl sulphate	77-78-1	201-058-1	N.D.	0.05%
VIII	114	呋喃 Furan	110-00-9	203-727-3	N.D.	0.05%

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VIII	115	顏料黃 41 Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	N.D.	0.01%
VIII	116	四乙基鉛 Tetraethyllead*	78-00-2	201-075-4	N.D.	0.01%
VIII	117	二鹽基鄰苯二甲酸鉛 [Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	N.D.	0.01%
VIII	118	硫酸二乙酯 Diethyl sulphate	64-67-5	200-589-6	N.D.	0.05%
VIII	119	氨基氰鉛鹽 Lead cyanamide*	20837-86-9	244-073-9	N.D.	0.01%
VIII	120	摻雜鉛的矽酸鋇 Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	N.D.	0.01%
VIII	121	磷酸氧化鉛 Trilead dioxide phosphonate*	12141-20-7	235-252-2	N.D.	0.01%
VIII	122	鄰甲基苯胺 <i>o</i> -Toluidine	95-53-4	202-429-0	N.D.	0.05%
VIII	123	鄰氨基偶氮甲苯 <i>o</i> -aminoazotoluene	97-56-3	202-591-2	N.D.	0.05%
VIII	124	4-對氨基偶氮苯 4-aminoazobenzene	60-09-3	200-453-6	N.D.	0.05%
VIII	125	6-甲氧基-間甲苯胺 6-methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine)	120-71-8	204-419-1	N.D.	0.05%
VIII	126	二丁基二氯化錫 Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	N.D.	0.05%
VIII	127	鈦酸鉛鋯 Lead titanium zirconium oxide*	12626-81-2	235-727-4	N.D.	0.01%
VIII	128	環氧丙烷 Methyloxirane (Propylene oxide)	75-56-9	200-879-2	N.D.	0.05%
VIII	129	1-溴代正丙烷 1-bromopropane (<i>n</i> -propyl bromide)	106-94-5	203-445-0	N.D.	0.05%
VIII	130	堿式碳酸鉛 Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	N.D.	0.01%
VIII	131	C16-18-脂肪酸鉛鹽 Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	N.D.	0.01%

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VIII	132	四氧化三鉛 Orange lead (lead tetroxide)*	1314-41-6	215-235-6	N.D.	0.01%
VIII	133	二堿式亞硫酸鉛(II) Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	N.D.	0.01%
VIII	134	4,4'-二氨基二苯醣 4,4'-oxydianiline and its salts	101-80-4	202-977-0	N.D.	0.05%
VIII	135	堿式硫酸鉛 Lead oxide sulfate*	12036-76-9	234-853-7	N.D.	0.01%
VIII	136	四氟硼酸鉛 Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	N.D.	0.01%
VIII	137	矽酸鉛 Silicic acid, lead salt*	11120-22-2	234-363-3	N.D.	0.01%
VIII	138	N,N-二甲基甲醯胺 N,N-dimethylformamide	68-12-2	200-679-5	N.D.	0.05%
IX	139	鎘 Cadmium	7440-43-9	231-152-8	N.D.	0.01%
IX	140	氧化鎘 Cadmium oxide*	1306-19-0	215-146-2	N.D.	0.01%
IX	141	鄰苯二甲酸二戊酯 Dipentyl phthalate (DPP)	131-18-0	205-017-9	N.D.	0.005%
IX	142	①乙氧基化的支鏈和直鏈的 4-壬基酚（直鏈和/或支鏈的具有 9 個碳原子的烷基鏈共價鍵合在 4 位的乙氧基酚，囊括了 UVCB 和定義明確的物質，聚合物及同系物，其中包括任何單獨的異構體和/或它們的組合）4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-	N.D.	0.05%
IX	143	全氟辛酸銨 Ammonium pentadecafluoroctanoate (APFO)	3825-26-1	223-320-4	N.D.	0.01%

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IX	144	全氟辛烷酸 Pentadecafluoroctanoic acid (PFOA)	335-67-1	206-397-9	N.D.	0.01%
X	145	^① 磷酸三(二甲苯)酯 Trixyl phosphate	25155-23-1	246-677-8	N.D.	0.01%
X	146	C.I.直接黑 38 Disodium 4-amino-3- [[4'-(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydr oxy-6- (phenylazo)naphthalene-2,7- disulphonate (C.I. Direct Black 38)***	1937-37-7	217-710-3	N.D.	0.01%
X	147	鄰苯二甲酸二己酯 Dihexyl phthalate	84-75-3	201-559-5	N.D.	0.005%
X	148	硫化鎘 Cadmium sulphide*	1306-23-6	215-147-8	N.D.	0.01%
X	149	C.I.直接紅 28 Disodium 3,3'-[[1,1'-biphenyl]- 4,4'-diylbis(azo)]bis(4- aminonaphthalene- 1-sulphonate) (C.I. Direct Red 28)***	573-58-0	209-358-4	N.D.	0.01%
X	150	醋酸鉛(II) Lead di(acetate)*	301-04-2	206-104-4	N.D.	0.01%
X	151	1,2-亞乙基硫脲 Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	N.D.	0.01%
XI	152	^① 鄰苯二甲酸二己酯, 直鏈和支 鏈 1,2-Benzene dicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	N.D.	0.01%
XI	153	氯化鎘 Cadmium chloride *	10108-64-2	233-296-7	N.D.	0.01%
XI	154	^③ 過硼酸鈉, 水合物; 過硼酸鈉 鹽 Sodium perborate; perboric acid, sodium salt *****	-	239-172-9, 234-390-0	N.D.	0.01%

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XI	155	③過硼酸鈉, 無水 Sodium peroxometaborate *****	7632-04-4	231-556-4	N.D.	0.01%
XII	156	2-(2H-苯並三唑-2-基)-4,6-二叔 戊基苯酚 2-(2H-Benzotriazol-2-yl)- 4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	N.D.	0.01%
XII	157	2-(2'-羥基-3',5'-二叔丁基苯基)- 苯並三唑 2-Benzotriazol-2-yl-4,6- di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	N.D.	0.01%
XII	158	二正辛基-雙(巯乙酸2-乙基己 酯)錫 2-ethylhexyl 10-ethyl-4,4-dioctyl-7- oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (DOTE)*	15571-58-1	239-622-4	N.D.	0.05%
XII	159	氟化鎘 Cadmium fluoride*	7790-79-6	232-222-0	N.D.	0.01%
XII	160	硫酸鎘 Cadmium sulphate*	10124-36-4; 31119-53-6	233-331-6	N.D.	0.01%
XII	161	①二正辛基-雙(巯乙酸2-乙基己 酯)錫(DOTE)和三(2-乙基己基 巯基乙酸)辛錫(MOTE)的反應 物料 Reaction mass of 2-ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5- dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4- [[2-[(2-ethylhexyl)oxy]-2- oxoethyl] thio]-4-octyl-7- oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (reaction mass of DOTE and MOTE)*	-	-	N.D.	0.05%

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批次 Batch	序號 No.	物質名稱 Substance Name(s)	CAS 號 CAS No.	EC 號 EC No.	濃度 Concentration (%)	報告 檢出限 Report Limit
XIII	162	①1,2-苯二羧酸, 二-C6-10-烷基酯；(葵基, 己基, 辛基) 酯與1,2-苯二甲酸的複合物，其鄰苯二甲酸二己酯含量≥0.3% (EC No. 201-559-5) 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5, 68648-93-1	271-094-0, 272-013-1	N.D.	0.05%
XIII	163	⑤-仲丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二惡烷 [1]，5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二惡烷[2] [任何[1]和[2]或者其任意組合的單獨異構體或其任何組合] (卡拉花醛及其異構體以及它們的混合物) 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-	N.D.	0.05%
XIV	164	硝基苯 Nitrobenzene	98-95-3	202-716-0	N.D.	0.01%
XIV	165	2,4-二-叔丁基-6-(5-氯-2H-苯並三唑-2-基)苯酚 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	N.D.	0.01%

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批次 Batch	序號 No.	物質名稱 Substance Name(s)	CAS 號 CAS No.	EC 號 EC No.	濃度 Concentration (%)	報告 檢出限 Report Limit
XIV	166	2-(2'-羥基-3'-異丁基-5'-叔丁基苯基)苯並三唑 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	N.D.	0.01%
XIV	167	1,3-丙烷磺內酯 1,3-propanesultone	1120-71-4	214-317-9	N.D.	0.01%
XIV	168	全氟壬酸及其鈉和銨鹽 Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	N.D.	0.01%

檢測依據 Test Method:

參考 US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), BS EN 14582:2007 進行樣品預處理。

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), BS EN 14582:2007 for sample pretreatment.

採用 ICP-OES, UV-Vis, IC, HPLC, GC-MS, GC-MS(NCI), Headspace-GCMS 及 LC-MS-MS 分析。

Analyzed by ICP-OES, UV-Vis, IC, HPLC, GC-MS, GC-MS(NCI), Headspace-GCMS and LC-MS-MS.

測試樣品/部位描述 黑色熱縮管(不含油墨)

Tested Sample/Part Description Black heat shrink able tube(Excluding the white printed)

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注釋 Note:

1. w/w % = 重量百分比 weight by weight; 0.1% = 1000mg/kg = 1000ppm
2. N.D. = 未檢出 Not Detected (小於報告檢出限<report limit)
3. *: 該物質的濃度值是由物質中的特徵元素測試結果換算而來。Concentration value of the substance by the conversion from the test results of certain elements.
三丁基氧化錫(TBTO)、二正辛基-雙(巯乙酸 2-乙基己酯)錫(DOTE)、二正辛基-雙(巯乙酸 2-乙基己酯)錫(DOTE)和三(2-乙基己基巯基乙酸)辛錫(MOTE)的反應物料的濃度值是由其特定化合物(三丁基錫(TBT)、二辛基錫(DOT)、單辛基錫(MOT))的結果換算而來。
Concentration value of Bis(tributyltin)oxide(TBTO), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) by the conversion from the test results of certain compounds (Tributyl Tins(TBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).
4. **: 在化學物質及其混合物的分類，標記與包裝法規，即 CLP 法規(法規(EC)No 1272/2008)的附錄 VI 中，索引號 650-017-00-8 適用於所有的耐火陶瓷纖維材料。All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation(Regulation (EC) No 1272/2008).
5. ***: C.I.:顏料索引號 Colour Index
6. ****: 蒸餾所分離出來的輕油部分 Light fractions from distillation
7. *****: 四硼酸鈉，無水和四硼酸鈉，水合物的濃度均由四硼酸鈉濃度表示，沒有考慮結晶水。過硼酸鈉，水合物；過硼酸鈉鹽和過硼酸鈉，無水的濃度均由過硼酸鈉濃度表示，沒有考慮結晶水。
Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.
8. ▲: 甲醛苯胺共聚物的濃度值是由其特定化合物(2,4-二氨基二苯甲烷、4,4'-二氨基二苯基甲烷、2,6-二氨基二苯甲烷)的結果換算而來。Concentration value of Formaldehyde, oligomeric reaction products with aniline (technical MDA) by the conversion from the test results of certain compounds (2,4-Diaminodiphenylmethane, 4,4'-Diaminodiphenylmethane, 2,6-Diaminodiphenylmethane).
9. ①: 由於這些物質是 UVCB 物質(未知成分或可變成分的，複雜反應物或生物材料的物質)，由各種不同的成分組成，所以這些物質的測試結果是由選定的具有代表性的物質的主要組成成分的測試結果換算而來的。In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

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10. ^②:由於此物質含有多種物質，測試結果是基於此物質中最具有代表性的主要組成化合物的含量，其主要造成化合物的測試結果是基於特徵元素的濃度換算而來。In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
11. ^③:硼酸；四硼酸鈉，無水；四硼酸鈉，水合物；三氧化二硼；過硼酸鈉，水合物；過硼酸鈉鹽和過硼酸鈉，無水的濃度值是由物質中的特徵元素測試結果換算而來，並用適當溶劑萃取進行確認，同時建議客戶檢查化學配方表進一步確認是否含有上述化合物。Concentration value of Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate; Diboron trioxide; Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.

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附加信息 Appendix:

1. 根據歐盟 REACH 法規（編號 1907/2006）第 33 條款之規定，物品類產品如果含有候選清單上的高度關注物質且在物品中的質量百分比超過 0.1% 時，物品供應方需履行相關信息傳遞義務：
Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
- 1) 物品供應方應提供給接收方關於產品的足夠信息以確保物品的安全使用，至少需提供所含高度關注物質的名稱。*Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.*
- 2) 應消費者請求，物品供應方應在 45 天內免費提供關於產品的足夠信息以確保物品的安全使用，至少需提供所含高度關注物質的名稱。*On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.*
2. 根據歐盟 REACH 法規（編號 1907/2006）第 31 條款及附件 2 之規定，提供高度關注物質的物質類產品供應方，應免費提供接收方該物質的安全資料表。*The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.*
3. 根據歐盟 REACH 法規（編號 1907/2006）第 31、32 條款及附件 2 之規定，提供含有高度關注物質的混合物產品供應方需傳遞相關信息：
The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.

- 1) 如果混合物產品按照 1999/45/EC 被判定為危險品時，供應方應免費提供產品的安全資料表。*Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.*
- 2) 如果混合物產品按照 1999/45/EC 判定並非危險品，但是任一高度關注物質在非氣體混合物中質量分數超過 0.1% 或在氣體混合物中體積分數超過 0.2%，供應方也應免費提供產品的安全資料表。*Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures or $\geq 0.2\%$ by volume for gaseous mixtures.*

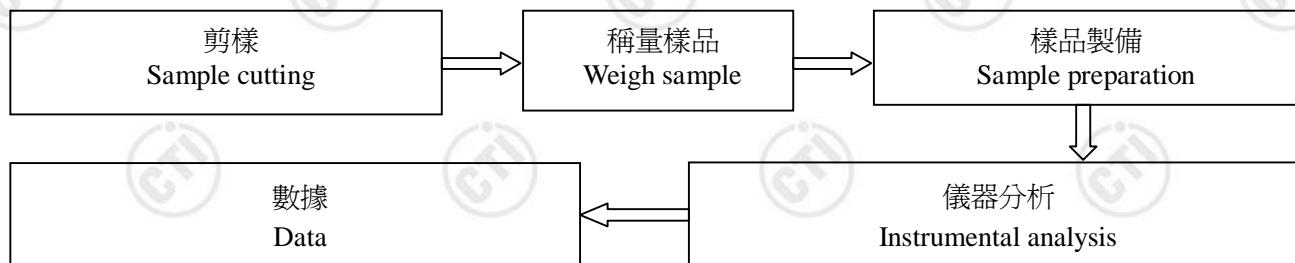
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檢測流程 Test Process



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樣品圖片

Photo(s) of the sample(s)



*** 報告結束 ***

*** End of Report ***

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1. RoHS 指令(2011/65/EU)
2. 包裝及包裝廢棄物指令 (2013/2/EU)
3. REACH
4. PFOS(2006/122/EC)

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此致

艾訊股份有限公司

立保證書人：黃文良

公司章：



公司名稱：訊鉅電子股份有限公司

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日期：2017/08/25

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