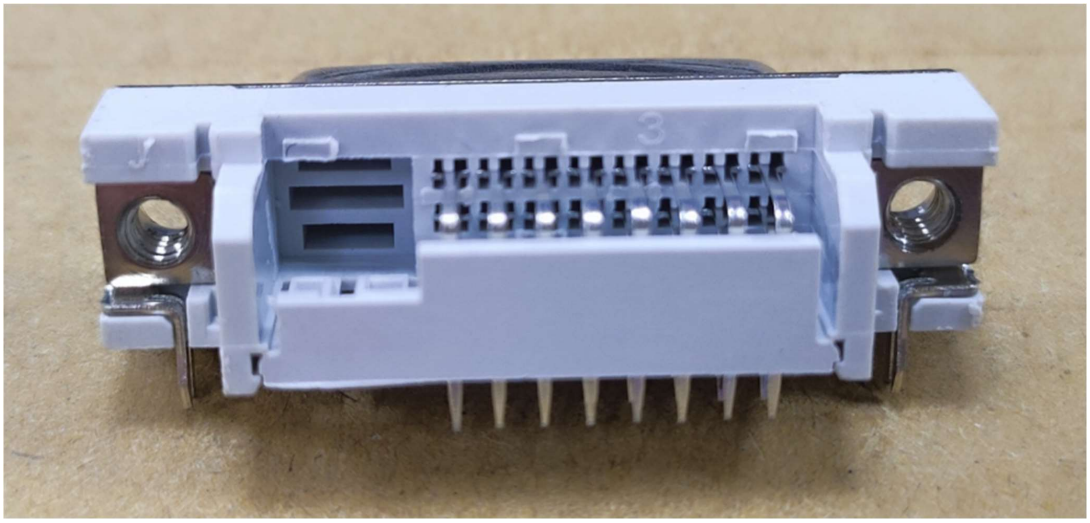
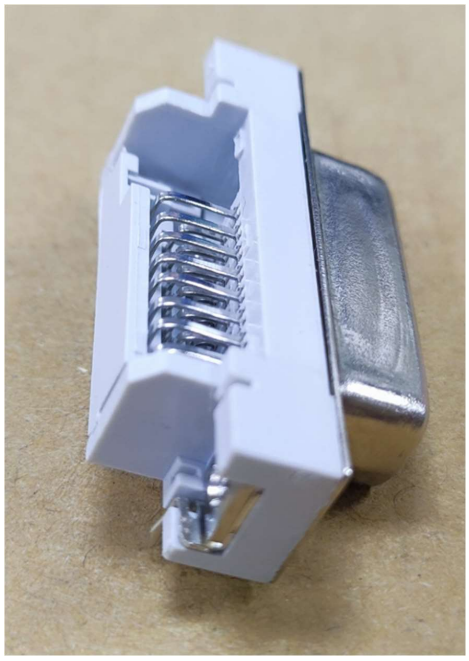
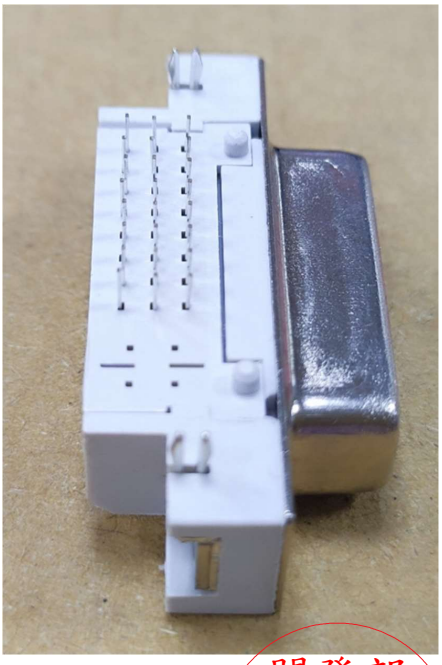


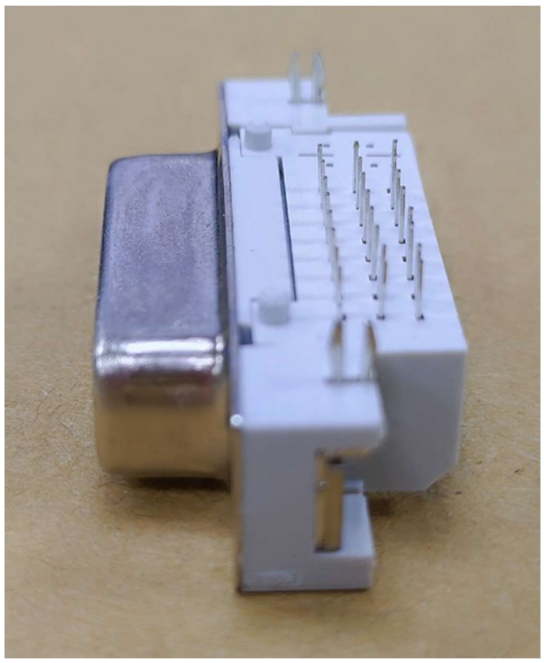






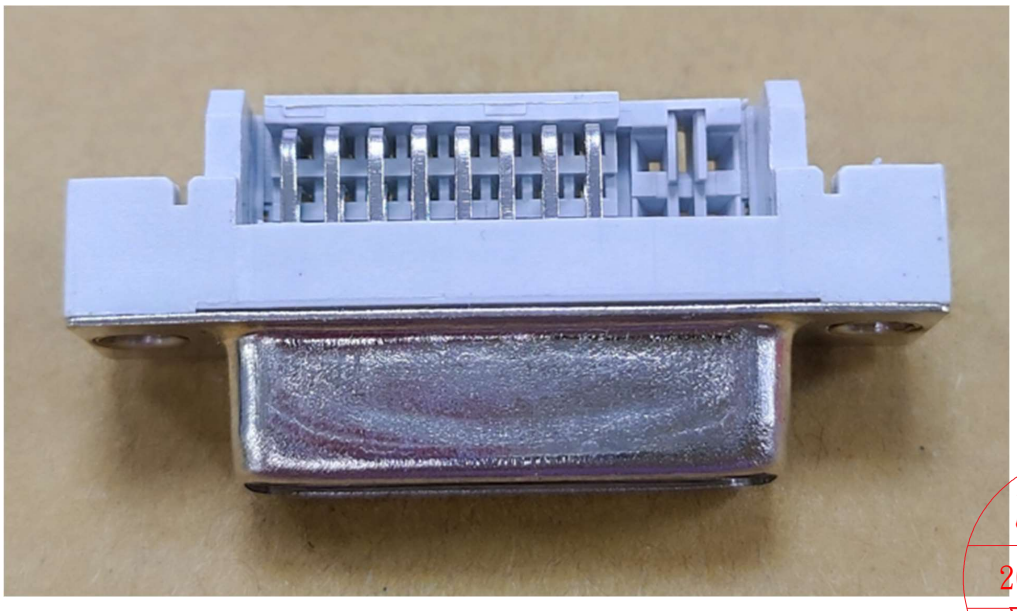


開發部
2023.06.27
發行
旺鑽科技開發股份有限公司









開發部
2023.06.27
發行
廷鏵科技開發股份有限公司

JKCR Electronics Co., Ltd.

規 格 書
SPECIFICATION

CUSTOMER NAME	客戶名稱:	鈺緯科技開發股份有限公司
CUSTOMER PARTS NO.	客戶料號:	3FF02400160 (F0285)
DESIGNATION	本廠系列:	DVI24+1 母座 90 度 DIP
MODEL NO.	本廠型號:	JCV-20W03-24F-01
DATE	日　　期:	2023/5/12

PLEASE CONFIRM OUR SPECIFICATION。 敬請確認規格書之內容。

PLEASE CONFIRM AND RETURN 1 COPY。 請確認後惠返。

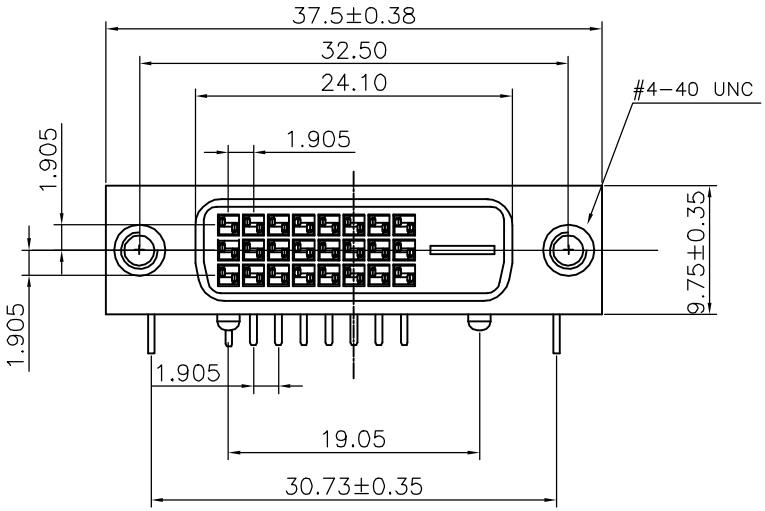
APPROVAL STATUS 審批			
◆ APPROVED 接受		◆ FAILED 不接受	
SIGNATURE 簽署		DATE 日期	開發部 2023.06.27 發行 鈺緯科技開發股份有限公司

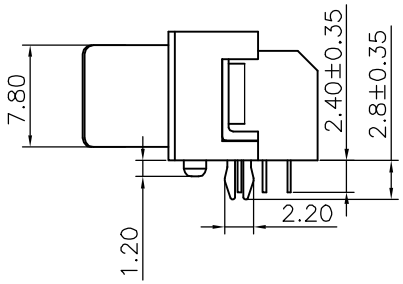
新 北 市 中 和 區 中 山 路 二 段 530 號 7 樓
TEL: (02) 8228-2182　　FAX: (02) 8228-2186
http://jkcr.com.tw/

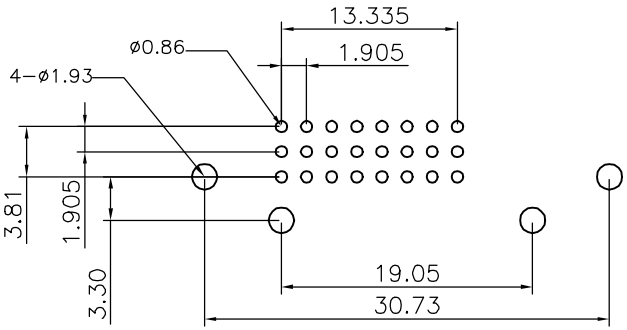
* RoHS COMPLIANT *

✳ REVISIONS				
LTR	DESCRIPTION	DATE	REVISED	APPROVED

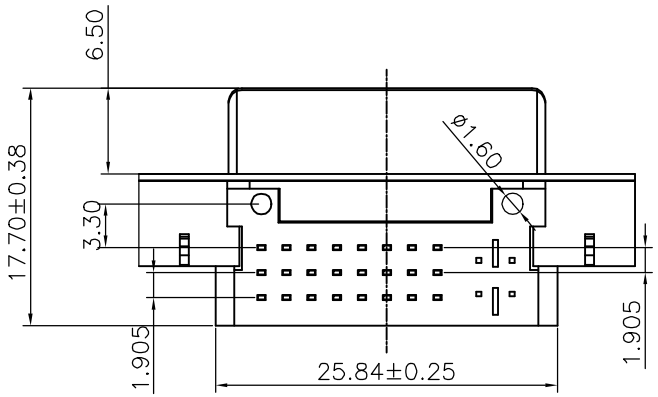
ELECTRICAL SPECFICATION
INSULATION RESISTANCE:1000 MEGOHMS MIN
DIELECTRIC WITHSTANDING VOLTAGE:500 V AC RMS
CONTACT RESISTANCE:30 MILIOHMS MAX.
OPERRATING TEMPERATURE: −20°C TO 85°C







P.C.B LAYOUT



3FF02400160(F0285)

ITEM	PART NAME	QTY.	MATERIAL	REMAKS
⑥	FISH FORK	2	SPCC	Sn
⑤	SHELL	1	SPCC	Ni
④	RIVET	2	COPPER ALLOY	Ni
③	COVER	1	PA66+30%G/F	本色
②	SIMULATION END	24	BRASS	SEMI−GOLD TIN
①	INSULATOR	1	Pbt+30%G/F	本色

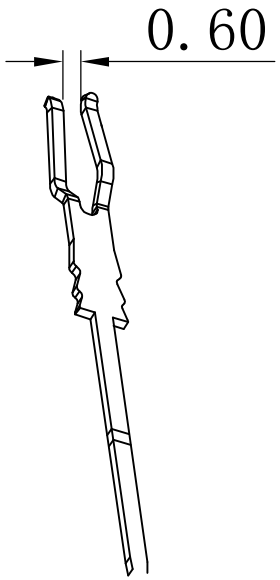
開發部 2023.06.27 發行 鈺鑽科技開發股份有限公司

DWN	LILY	DATE	2023.04.06	3RD ANGLE PROJECTION	NAME: DVI 24+1 母 90度 鉚合
CHKD	ANDY	DATE	2023.04.06		CAT. NO.: JCV−20W03−24F−01
APVD	JON	DATE	2023.04.06	UNIT: mm	
JKCR Electronics Co., Ltd.					DWN.NO.: ZM−AD3−A30 002

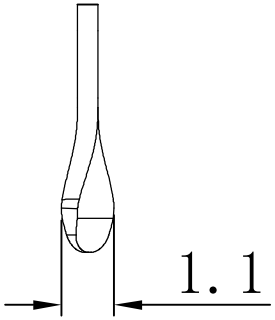
UNLESS OTHERWISE SPECIFIED, TOLERANCE ON DECIMAL: ±0.3

公母對插示意圖

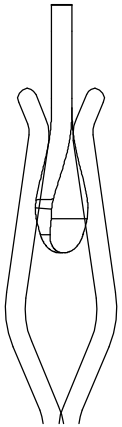
母端



公端



公母對插示意圖



1. 适用范围

此规范包括了 DVI(Digital Visual Interface)24P+X 产品的性能、测试和质量要求。

2. 相关文件

当此规范与产品图纸不符时，以产品图为准；当此规范与相关文件不符时，以此规范为准。

3. 要求

3.1 设计与结构

3.2 材料和表面处理

A. 端子(数位端、模拟端): 铜合金，电镀：镍底，接触部位镀金，焊脚镀锡。

B. 接地片: 铜合金，电镀：镍底，接触部位镀金，焊脚镀锡。

C. 主体、后盖: 热塑性材料

D 铆钉: 黄铜，电镀：镍

E. 铁壳: SPCC，电镀：镍

3.3 电气性能

A. 额定电流: 1.5A AC/DC

B. 额定电压: 40V AC/DC

C. 接触阻抗: 30mΩ Max.

D. 绝缘阻抗: 1000MΩ Min.

E. 耐电压值: 500V AC rms

3.4 其它技术参数

A. 温度范围: -20℃～+85℃ (包含工作引起的温升)

3.5 性能要求及测试描述

产品必须符合表 1 所列的电气、机械和环境要求。

若未特别注明，所有测试均在室温下进行。

4. 测试要求及操作程序

表 1

外观与尺寸			
编号	测试内容	测试方法	要求
4.1	外观	目视(60W 日光灯下,目视距离 30CM)	无机械损伤、氧化、变形等
4.2	组装及外形尺寸	投影机或工具显微镜量测	符合工程图面
电气性能			
4.3	接触阻抗	将配插好的产品放置于电压为 20mV、电流为 10mA 的开路电路中进行测试	30mΩ Max.
4.4	绝缘阻抗	施加 500±50V AC 于相邻端子间测试	1000MΩ Min.

4.5	耐电压值	施加 500±50V AC 于相邻端子间一分钟	无放电、击穿现象
机械性能			
4.6	插入力	以每分钟 25±3mm 的速度配插 DVI 公母头	4.5kgf Max.
4.7	拔出力	以每分钟 25±3mm 的速度将公头拔出	1.0-4.0kgf
环境性能			
4.8	可焊性	以端子头部 1.5mm 范围作试验： 锡温度：260±5℃ 沾锡时间：5±0.5 秒	沾锡面积 95%以上 无针孔及漏沾锡现象 外观无损伤

5.逐批检查

5.1 抽样方法: 按 GB/T2828.1-2003 要求执行, 采用特殊检验水平 S-2, 一次抽样方法

5.2 逐批检查项目及 AQL 值

表 2

检验项目	AQL 值			备注
	CRI＝0	MAX＝0.65	MIN＝1.5	
外形尺寸	/	√	/	
外观	/	/	/	全检
接触阻抗	√	/	/	
插拔力	/	√	/	

5.3 判定: 当不良数超过规定时, 判为不合格, 退回重工, 再重新按规定提交逐批检查

6．周期试验

6.1 周期检查按 GB/T2829-2002 标准执行，采用判别水平 II，一次抽样方法，RQL=30

6.2 周期时机

6.2.1 批量生产前

6.2.2 关键结构，材料更改时

6.2.3 生产期满半年或产量达 1000K 时

6.2.4 停产一年以上恢复生产时

6.2.5 客户要求时

6.3 判定：周期试验不合格时，应立即停产，并进行分析，采取改善措施。当试验合格后方能恢复生产。如属偶然因素，允许重做一次。周期试验合格可作为验收和交货依据。

7. 包装: 内包装使用真空盘包装，外包装可使用纸箱。

8. 储存: 包装好的产品, 应储存放置在无污染、温度在-10℃～+40℃、相对湿度不大于 80%的环境中。

9. 运输: 运输过程中须防潮防湿、防剧烈振动、防重压等，确保产品品质。

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PROSPECTOR® CLICK TO CONTINUE

View additional material information including performance and processing data

The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Component - Plastics E59481

Guide Information

CHANG CHUN PLASTICS CO LTD

No 8 Huaxi Rd, Daliao District, Kaohsiung City 83164 TW

4815

Polybutylene Terephthalate (PBT) "LONGLITE", furnished as pellets

Color	Min. Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	3.0-3.2	V-0	1	3	75	75	75

Comparative Tracking Index (CTI): 3

Dielectric Strength (kV/mm): -

High-Voltage Arc Tracking Rate (HVTR): 2

Dimensional Stability (%): -

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10^x ohm-cm): -

Surface Resistivity (10^x ohms/square): -

High Volt, Low Current Arc Resis (D495): 7

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1987-09-01

Last Revised: 2020-04-09

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	3.0-3.2	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-1	kJ/m^2	-	-

CHANG CHUN PLASTICS CO., LTD.

NO. 301, SONGKIANG ROAD, 7TH FL.,TAIPEI, 10477 TAIWAN
TEL : 886-2-2503-8131 (REF) FAX : 886-2- 2501-8018

PBT 4815

Property (物性)	Value (规格值)	Unit (单位)	Test method (测试方法) ASTM
Glass Fiber Content (玻纤含量)	15 %		CCP
Specific gravity(比重)	1.48 -		D792
Melting point(熔点)	225	℃	DSC
HDT(热变形温度)			
--- 18.6 kg/cm^2	205	℃	D648
--- 4.6 kg/cm^2	220	℃	D648
Moisture absorption (24h)(吸湿率)	0.03	%	D570
Flammability acc. to UL94, 3.2 ㎜ thickness (耐燃性)	V-0 -		UL94
Tensile strength(引张强度)	888 MPa		D638
Tensile elongation(引张伸长率)	3.8	%	
Flexural strength(挠曲强度)	1355	kg/cm^2	D790
Flexural modulus(挠曲模数)	≥50000	MPa	D790
Izod impact strength – notched 1/4" (冲击强度)	6	KJ/m^2	D256
Hardness - rockwell (洛氏硬度)	93 M-Scale		D785
Dielectric strength, 2 ㎜ thickness (绝缘破坏强度)	>20	KV/㎜	D149
Volume resistivity(体积抵抗率)	>10^{15}	Ω-cm	D257
Surface resistivity(表面抵抗率)	>10^{13}	Ω	D257
Dielectric constant((介电常数)	4.5 60Hz		D150
Dielectric dissipation factor(诱电正接)	0.001 60Hz		D150
Arc resistance(电弧抵抗率)	100 SEC		D495

※ 表中测试数据仅作参考用,非制定之规格值.

(1) For reference only.

(2) All data in the table are the typical values of the material and not the minimum values of the material specifications.

測試報告
Test Report

號碼(No.): ETR22C03341　　日期(Date): 22-Dec-2022　　

長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.)
長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.)
長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO.,LTD.)
104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

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 the applicant as)：

送樣廠商(Sample Submitted By)	:	長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.)
樣品名稱(Sample Name)	:	POLYBUTYLENE TEREPHTHALATE (PBT)
樣品型號(Style/Item No.)	:	PBT(4108,4108F,4115,4115F,4120,4130,4130F,4140,4615,4620,4630,4730,4810M, 4815,4820,4830,4840,4815G,4820G,4830G,4330G,4315,4315F,4330F,4330R,4130 R,4130E,4830E,4830S,4830F,4815F,V4130,V4815G,V4820G,V4830G,4130RB)

==========

收件日(Sample Receiving Date)	:		15-Dec-2022
測試期間(Testing Period)	:		15-Dec-2022 to 22-Dec-2022
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(s).)
		(2)	依據客戶指定，測試 PAHs 及其他測項。 (As specified by client, to test PAHs and other item(s).)
測試結果(Test Results)	:		請參閱下一頁 (Please refer to following 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 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)
		(2)	根據客戶所提供的樣品，多環芳香烴測試結果符合德國產品安全委員會(AfPS) GS PAHs第 2 類「供14歲以下兒童使用的產品」之限值要求。(Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 2)「Use by children under 14」 as set by German Committee on Product Safety (AfPS) GS PAHs.)

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

CHECK REPORT
PIN CODE: 24F19878

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測試報告
Test Report

長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.)
長春化工(漳州)有限公司 (CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.)
長春化工(江蘇)有限公司 (CHANG CHUN CHEMICAL (JIANGSU) CO.,LTD.)
104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)		mg/kg	2	8.68	1000
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) (CAS No.: 18540-29-9)	參考IEC 62321-7-2: 2017，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	1000
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000

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測試報告
Test Report

長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.)
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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (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 (DEHP)) (CAS No.: 117-81-7)		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		mg/kg	50	n.d.	1000
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (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 (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.	-

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測試報告
Test Report

號碼(No.): ETR22C03341 日期(Date): 22-Dec-2022

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
多環芳香烴 (Polycyclic Aromatic Hydrocarbons) (PAHs)					
苯駢(a)芘 (Benzo[a]pyrene) (CAS No.: 50-32-8)	參考AfPS GS 2019:01 PAK，以氣相層析儀/質譜儀分析。(With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	Δ
苯駢(e)芘 (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	Δ
苯駢蒽 (Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	Δ
苯(b)苯駢芴 (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	Δ
苯(j)苯駢芴 (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2	n.d.	Δ
苯(k)苯駢芴 (Benzo[k]fluoranthene) (CAS No.: 207-08-9)		mg/kg	0.2	n.d.	Δ
䓛 (Chrysene) (CAS No.: 218-01-9)		mg/kg	0.2	n.d.	Δ
二苯駢蒽 (Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)		mg/kg	0.2	n.d.	Δ
苯駢苝 (Benzo[g,h,i]perylene) (CAS No.: 191-24-2)		mg/kg	0.2	n.d.	Δ
茚酮芘 (Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	Δ
蒽 (Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	Δ
苯駢芴 (Fluoranthene) (CAS No.: 206-44-0)		mg/kg	0.2	n.d.	Δ
菲 (Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	Δ
芘 (Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	Δ
萘 (Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	Δ
多環芳香烴15項總和 (Sum of 15 PAHs)		mg/kg	-	n.d.	Δ

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
苊烯 (Acenaphthylene) (CAS No.: 208-96-8)	參考AfPS GS 2019:01 PAK，以氣相層析儀/質譜儀分析。(With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	-
苊 (Acenaphthene) (CAS No.: 83-32-9)		mg/kg	0.2	n.d.	-
芴 (Fluorene) (CAS No.: 86-73-7)		mg/kg	0.2	n.d.	-
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008，以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
四溴雙酚-A (TBBP-A) (Tetrabromobisphenol A (TBBP-A)) (CAS No.: 79-94-7)	參考RSTS-E&E-121，以液相層析儀/質譜儀分析。(With reference to RSTS-E&E-121, analysis was performed by LC/MS.)	mg/kg	10	n.d.	-
紅磷 (Red Phosphorus)	以熱裂解-氣相層析儀/質譜儀分析。(Analysis was performed by Pyrolyzer-GC/MS.)	**	-	Negative	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟丁酸 (PFBA) (Perfluorobutane Acid (PFBA)) (CAS No.: 375-22-4)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟丁磺酸 (PFBS) (Perfluorobutane Sulfonate (PFBS)) (CAS No.: 375-73-5)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟丁基磺酸鉀 (PFBS-K) (Perfluorobutane Sulfonate K-salt (PFBS-K)) (CAS No.: 29420-49-3)	由全氟丁磺酸測試結果計算得之。(Calculated from the result of PFBS.)	mg/kg	0.01▲	n.d.	-
全氟丁基磺酸氟 (PFBS-F) (Perfluorobutane sulfonyl fluoride (PFBS-F)) (CAS No.: 375-72-4)	由全氟丁磺酸測試結果計算得之。(Calculated from the result of PFBS.)	mg/kg	0.01▲	n.d.	-
全氟丁基磺酸四乙基銨 (PFBS-N(CH3CH2)4) (Tetraethylammonium perfluorobutanesulfonate (PFBS-N(CH3CH2)4)) (CAS No.: 25628-08-4)	由全氟丁磺酸測試結果計算得之。(Calculated from the result of PFBS.)	mg/kg	0.01▲	n.d.	-
全氟戊酸 (PFPA) (Perfluoropentane Acid (PFPA)) (CAS No.: 2706-90-3)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟已酸 (PFHxA) (Perfluorohexane Acid (PFHxA)) (CAS No.: 307-24-4)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟已酸銨 (PFHxA-NH4) (Ammonium perfluorohexanoate (PFHxA-NH4)) (CAS No.: 21615-47-4)	由全氟已酸測試結果計算得之。(Calculated from the result of PFHxA.)	mg/kg	0.01▲	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟己基碘 (PFHxI) (Perfluorohexyl iodide (PFHxI)) (CAS No.: 355-43-1)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
全氟己基乙烯 (PFHxE) (Perfluorohexyl ethylene (PFHxE)) (CAS No.: 25291-17-2)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
1H,1H,2H,2H-全氟辛基碘 (6_2FOI) (1H,1H,2H,2H-Perfluorooctyl iodide (6_2FOI)) (CAS No.: 2043-57-4)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟-1-辛醇 (6:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-octanol (6:2FTOH)) (CAS No.: 647-42-7)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟辛基丙烯酸酯 (6:2 FTA) (1H,1H,2H,2H-Perfluorooctylacrylate (6:2FTA)) (CAS No.: 17527-29-6)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟辛基甲基丙烯酸酯 (6_2 FTMAC) (1H,1H,2H,2H-perfluorooctyl methacrylate (6_2 FTMAC)) (CAS No.: 2144-53-8)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟辛磺酸 (H4PFOS 6:2) (1H,1H,2H,2H-Perfluorooctanesulphonic Acid (H4PFOS 6:2)) (CAS No.: 27619-97-2)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟己基磺酸及其鹽類 (PFHxS) (Perfluorohexane-1-sulphonic acid and its salts (PFHxS)) (CAS No.: 355-46-4)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟己基磺酸鈉 (PFHxS-Na) (Perfluorohexanesulfonate NA-salt (PFHxS-Na)) (CAS No.: 82382-12-5)	由全氟己基磺酸測試結果計算得之。(Calculated from the result of PFHxS.)	mg/kg	0.01▲	n.d.	-
全氟己基磺酸鉀 (PFHxS-K) (Perfluorohexanesulfonate K-salt (PFHxS-K)) (CAS No.: 3871-99-6)	由全氟己基磺酸測試結果計算得之。(Calculated from the result of PFHxS.)	mg/kg	0.01▲	n.d.	-
全氟己基磺酸胺 (PFHxS-NH4) (Perfluorohexanesulfonate ammonium salt (PFHxS-NH4)) (CAS No.: 68259-08-5)	由全氟己基磺酸測試結果計算得之。(Calculated from the result of PFHxS.)	mg/kg	0.01▲	n.d.	-
全氟己基磺酸鋰 (PFHxS-Li) (Perfluorohexanesulfonate Li-salt (PFHxS-Li)) (CAS No.: 55120-77-9)	由全氟己基磺酸測試結果計算得之。(Calculated from the result of PFHxS.)	mg/kg	0.01▲	n.d.	-
全氟己基磺酸鋅 (PFHxS-Zn) (Perfluorohexanesulfonate Zn-salt (PFHxS-Zn)) (CAS No.: 70136-72-0)	由全氟己基磺酸測試結果計算得之。(Calculated from the result of PFHxS.)	mg/kg	0.01▲	n.d.	-
全氟己基磺醯氟 (PFHxS-F) (Perfluorohexanesulfonate sulfonyl fluoride (PFHxS-F)) (CAS No.: 423-50-7)	由全氟己基磺酸測試結果計算得之。(Calculated from the result of PFHxS.)	mg/kg	0.01▲	n.d.	-
全氟庚酸 (PFHpA) (Perfluoroheptane Acid (PFHpA)) (CAS No.: 375-85-9)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
7H-十二氟庚酸 (HPFHpA) (7H-Dodecanefluoroheptane Acid (HPFHpA)) (CAS No.: 1546-95-8)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試報告
Test Report

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟庚基磺酸 (PFHpS) (Perfluoroheptane Sulfonate (PFHpS)) (CAS No.: 375-92-8)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟庚基磺酸鈉 (PFHpS-Na) (Perfluoroheptanesulfonate Na-salt (PFHpS-Na)) (CAS No.: 68555-66-8)	由全氟庚基磺酸測試結果計算得之。(Calculated from the result of PFHpS.)	mg/kg	0.01▲	n.d.	-
全氟辛烷磺酸 (PFOS) (Perfluorooctane sulfonates (PFOS)) (CAS No.: 1763-23-1)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛基磺酸鉀 (PFOS-K) (Potassium Perfluorooctanesulfonate (PFOS-K)) (CAS No.: 2795-39-3)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸鋰 (PFOS-Li) (Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)) (CAS No.: 29457-72-5)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸銨 (PFOS-NH4) (Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH4)) (CAS No.: 29081-56-9)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸二乙醇銨 (PFOS-NH(OH)2) (Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)2)) (CAS No.: 70225-14-8)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸四乙基銨 (PFOS-N(C2H5)4) (Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C2H5)4)) (CAS No.: 56773-42-3)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) (N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)) (CAS No.: 251099-16-8)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺醯氟 (POSF) (Perfluorooctane sulfonyl fluoride (POSF)) (CAS No.: 307-35-7)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸鎂 (PFOS-Mg) (Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)) (CAS No.: 91036-71-4)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸鈉 (PFOS-Na) (Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)) (CAS No.: 4021-47-0)	由全氟辛烷磺酸測試結果計算得之。 (Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
N-乙基全氟正辛磺醯胺 (EtFOSA) (N-ethylperfluoro-1-octanesulfonamide (EtFOSA)) (CAS No.: 4151-50-2)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
N-甲基全氟正辛磺醯胺 (N-Me-FOSA) (N-Methyl-Perfluoroctanesulfonamide (N-Me-FOSA)) (CAS No.: 31506-32-8)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
N-乙基全氟辛基磺醯胺乙醇 (N-Et-FOSE alcohol) (N-Ethyl-Perfluoroctanesulfonamidoethanol (N-Et-FOSE alcohol)) (CAS No.: 1691-99-2)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
N-甲基全氟辛基磺醯胺乙醇 (N-Me-FOSE alcohol) (N-Methyl-Perfluorooctanesulfonamidoethanol (N-Me-FOSE alcohol)) (CAS No.: 24448-09-7)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛基磺醯胺 (PFOSA) (Perfluorooctanesulfonamide (PFOSA)) (CAS No.: 754-91-6)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛酸(PFOA) (Perfluorooctanoic Acid (PFOA)) (CAS No.: 335-67-1)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛酸鈉 (PFOA-Na) (Sodium perfluorooctanoate (PFOA-Na)) (CAS No.: 335-95-5)	由全氟辛酸測試結果計算得之。(Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-
全氟辛酸鉀 (PFOA-K) (Potassium perfluorooctanoate (PFOA-K)) (CAS No.: 2395-00-8)	由全氟辛酸測試結果計算得之。(Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-
全氟辛酸銀 (PFOA-Ag) (Silver perfluorooctanote (PFOA-Ag)) (CAS No.: 335-93-3)	由全氟辛酸測試結果計算得之。(Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-
全氟辛氟 (PFOA-F) (Perfluorooctanoyl fluoride (PFOA-F)) (CAS No.: 335-66-0)	由全氟辛酸測試結果計算得之。(Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-
全氟辛酸銨 (APFO) (Ammonium pentadecafluorooctanoate (APFO)) (CAS No.: 3825-26-1)	由全氟辛酸測試結果計算得之。(Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
1H,1H,2H,2H-全氟癸磺酸 (8:2 FTS) (1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)) (CAS No.: 39108-34-4)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛酸甲酯 (Me-PFOA) (Methyl perfluorooctanoate (Me-PFOA)) (CAS No.: 376-27-2)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
全氟辛酸乙酯 (Et-PFOA) (Ethyl perfluorooctanoate (Et-PFOA)) (CAS No.: 3108-24-5)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)) (CAS No.: 678-39-7)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA) (1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)) (CAS No.: 27905-45-9)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟癸基甲基丙烯酸鹽 (8:2 FTMA) (1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)) (CAS No.: 1996-88-9)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
全氟辛基碘烷 (PFOI) (Perfluoro-1-iodooctane (PFOI)) (CAS No.: 507-63-1)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟壬酸 (PFNA) (Perfluorononan-1-oic acid (PFNA)) (CAS No.: 375-95-1)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟壬酸鈉 (PFNA-Na) (Perfluorononanoate NA-Salt (PFNA-Na)) (CAS No.: 21049-39-8)	由全氟壬酸測試結果計算得之。(Calculated from the result of PFNA.)	mg/kg	0.01▲	n.d.	-
全氟壬酸銨 (APFN) (Perfluorononanoate ammounium salt (APFN)) (CAS No.: 4149-60-4)	由全氟壬酸測試結果計算得之。(Calculated from the result of PFNA.)	mg/kg	0.01▲	n.d.	-
全氟-3,7-二甲基辛酸 (PF-3,7-DMOA) (Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)) (CAS No.: 172155-07-6)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟癸酸 (PFDA) (Nonadecafluorodecanoic acid (PFDA)) (CAS No.: 335-76-2)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟癸酸鈉 (PFDA-Na) (Perfluorodecanoate Na-salt (PFDA-Na)) (CAS No.: 3830-45-3)	由全氟癸酸測試結果計算得之。(Calculated from the result of PFDA.)	mg/kg	0.01▲	n.d.	-
全氟癸酸銨 (APFDA) (Perfluorodecanoate ammonium salt (APFDA)) (CAS No.: 3108-42-7)	由全氟癸酸測試結果計算得之。(Calculated from the result of PFDA.)	mg/kg	0.01▲	n.d.	-
全氟十一烷酸 (PFUnDA) (Henicosafluoroundecanoic acid (PFUnDA)) (CAS No.: 2058-94-8)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟十二烷酸 (PFDoDA) (Tricosafluorododecanoic acid (PFDoDA)) (CAS No.: 307-55-1)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟十二烷酸銨 (APFDoDA) (Ammonium Perfluorododecanoate (APFDoDA)) (CAS No.: 3793-74-6)	由全氟十二烷酸測試結果計算得之。(Calculated from the result of PFDoDA.)	mg/kg	0.01▲	n.d.	-
全氟癸烷磺酸 (PFDS) (Perfluorodecane Sulfonate (PFDS)) (CAS No.: 126105-34-8/ 335-77-3)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟癸烷磺酸鈉 (PFDS-Na) (Perfluorodecanesulfonate Na-salt (PFDS-Na)) (CAS No.: 2806-15-7)	由全氟癸烷磺酸測試結果計算得之。(Calculated from the result of PFDS.)	mg/kg	0.01▲	n.d.	-
全氟癸烷磺酸鉀 (PFDS-K) (Perfluorodecanesulfonate K-salt (PFDS-K)) (CAS No.: 2806-16-8)	由全氟癸烷磺酸測試結果計算得之。(Calculated from the result of PFDS.)	mg/kg	0.01▲	n.d.	-
全氟癸基磺酸銨 (PFDS-NH4) (Perfluoroaliphatic Dean-sulfonate salt of NH4 (PFDS-NH4)) (CAS No.: 67906-42-7)	由全氟癸烷磺酸測試結果計算得之。(Calculated from the result of PFDS.)	mg/kg	0.01▲	n.d.	-
全氟十三烷酸 (PFTrDA) (Pentacosafluorotridecanoic acid (PFTrDA)) (CAS No.: 72629-94-8)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟十四烷酸 (PFTDA) (Heptacosafluorotetradecanoic acid (PFTDA)) (CAS No.: 376-06-7)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試報告
Test Report

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104-83 台灣台北市松江路301號7樓 (7TH FLOOR, NO. 301, SONGJIANG RD., ZHONGSHAN DISTRICT 10483, TAIPEI, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
全氟十六烷酸 (PFHxDA,C16) (Hexadecanoic acid, hentriacontafluoro (PFHxDA,C16)) (CAS No.: 67905-19-5)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟十八烷酸 (PFODA,C18) (Octadecanoic acid, pentatriacontafluoro (PFODA,C18)) (CAS No.: 16517-11-6)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
1H,1H,2H,2H-全氟十二烷基丙烯酸酯 (10:2 FTA) (1H,1H,2H,2H-Perfluorododecylacrylate (10:2FTA)) (CAS No.: 17741-60-5)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟-1-十二醇 (10:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2FTOH)) (CAS No.: 865-86-1)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
2H,2H-全氟癸酸 (H2PFDA) (2H,2H-Perfluorodecane Acid (H2PFDA)) (CAS No.: 27854-31-5;882489-14-7)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
2H,2H,3H,3H-全氟癸酸(4HPFUnA) (2H,2H,3H,3H-Perfluoroundecanoic Acid (4HPFUnA)) (CAS No.: 34598-33-9)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
1H,1H,2H,2H-全氟-1-己醇 (4:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-hexanol (4:2FTOH)) (CAS No.: 2043-47-2)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
1H,1H,2H,2H-全氟癸基碘 (8_2 FTI) (1H,1H,2H,2H-Perfluorodecyl iodide (8_2 FTI)) (CAS No.: 2043-53-0)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
2,3,3,3-四氟-2-(七氟丙氧基)丙酸 (HFPO-DA) (2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid (HFPO-DA)) (CAS No.: 13252-13-6)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
1H,1H,2H,2H-全氟己磺酸 (4:2 FTS) (1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2 FTS)) (CAS No.: 757124-72-4)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛烷磺酰胺乙酸 (FOSAA) (Perfluorooctane sulfonamidoacetic acid (FOSAA)) (CAS No.: 2806-24-8)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
N-甲基全氟辛烷磺酰胺乙酸 (N-MeFOSAA) (N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA)) (CAS No.: 2355-31-9)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
N-乙基全氟辛烷磺酰胺乙酸 (N-EtFOSAA) (N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA)) (CAS No.: 2991-50-6)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟戊磺酸 (PFPeS) (Perfluoropentane sulfonic acid (PFPeS)) (CAS No.: 2706-91-4)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試報告
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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
2-全氟己基乙酸 (6:2 FTCA) (2-Perfluorohexyl ethanoic acid (6:2 FTCA)) (CAS No.: 53826-12-3)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
3-全氟戊基丙酸 (5:3 FTCA) (3-Perfluoropentyl propanoic acid (5:3 FTCA)) (CAS No.: 914637-49-3)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟壬烷磺酸 (PFNS) (Perfluorononane sulfonic acid (PFNS)) (CAS No.: 68259-12-1)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟十一烷磺酸 (PFUnS) (Perfluoroundecane sulfonic acid (PFUnS)) (CAS No.: 749786-16-1)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟十二烷磺酸 (PFDoDS) (Perfluorododecane sulfonic acid (PFDoDS)) (CAS No.: 79780-39-5)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
雙(1H,1H,2H,2H-全氟癸基)磷酸酯 (8_2diPAP) (Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate (8_2diPAP)) (CAS No.: 678-41-1)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟十五烷酸 (PFPeDA, C15) (Pentadecanoic acid, nonacosafluoro (PFPeDA,C15)) (CAS No.: 141074-63-7)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
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. ▲：MDL是針對元素/測試化合物之評估。(The MDL was evaluated for element / tested substance.)
   參數換算表 (Parameter Conversion Table)：
   https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others
8. 除非另有說明，參照ILAC-G8:09/2019，採用簡單二元(w=0)允收規則進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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Remark：

Δ 德國產品安全委員會(AfPS): GS PAHs 要求
AfPS (German commission for Product Safety): GS PAHs requirements

項目 (Parameter)	第 1 類(Category 1)	第 2 類(Category 2)		第 3 類(Category 3)	
	意圖放入口中的材料或者長時間接觸皮膚(超過 30 秒)的 2009/48/EC 定義的玩具材料和 3 歲以下兒童使用的產品(Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds))	不屬於第 1 類的材料，並意圖或可預見與皮膚接觸逾 30 秒(長期皮膚接觸)或重複的短時間接觸(Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin)		不屬於第 1 類或第 2 類的材料，並意圖或可預見與皮膚接觸不超過 30 秒(短期皮膚接觸)(Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≦ 30 seconds))	
		a. 供 14 歲以下兒童使用的產品(Use by children under 14)	b. 其它產品(Other consumer products)	a. 供 14 歲以下兒童使用的產品(Use by children under 14)	b. 其它產品(Other consumer products)
Naphthalene	< 1	< 2		< 10	
Phenanthrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
15 項 PAH 總濃度 (Sum of 15 PAH)	< 1	< 5	< 10	< 20	< 50

單位(Unit)：mg/kg

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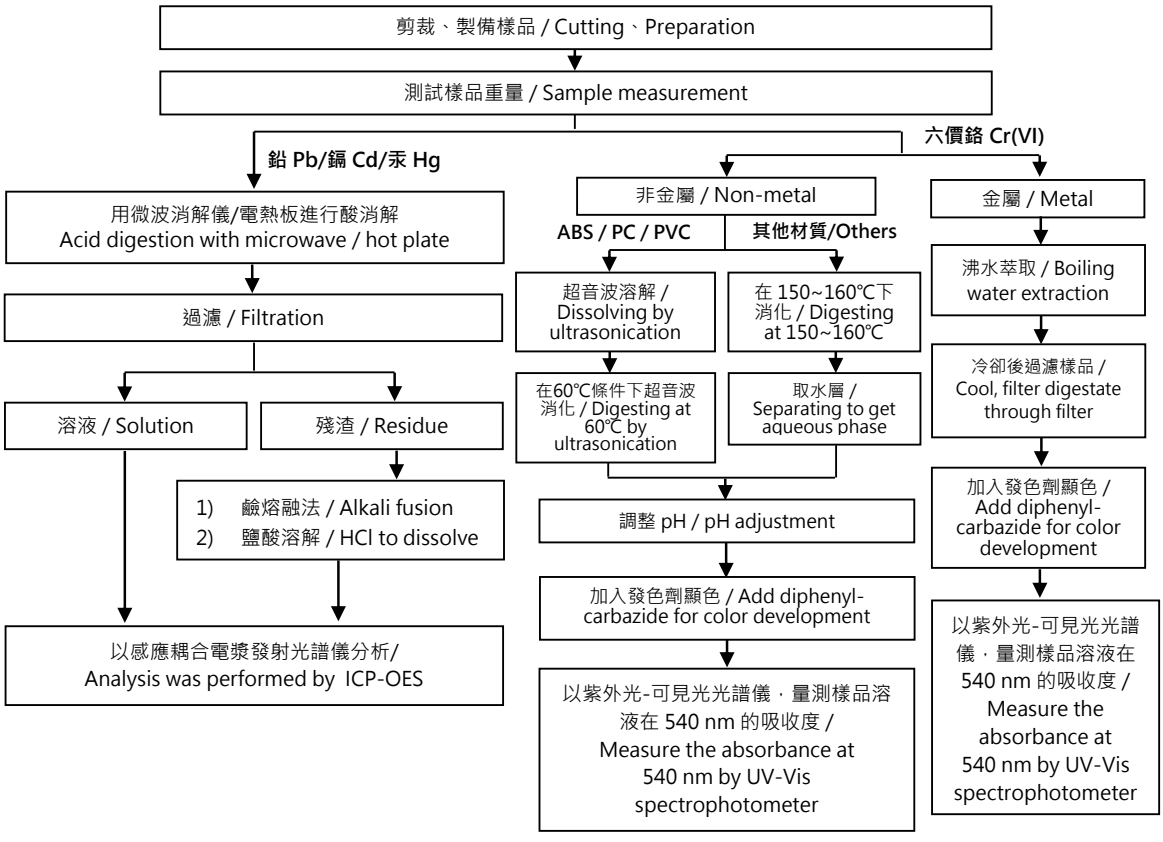
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重金屬流程圖 / Analytical flow chart of heavy metal

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.

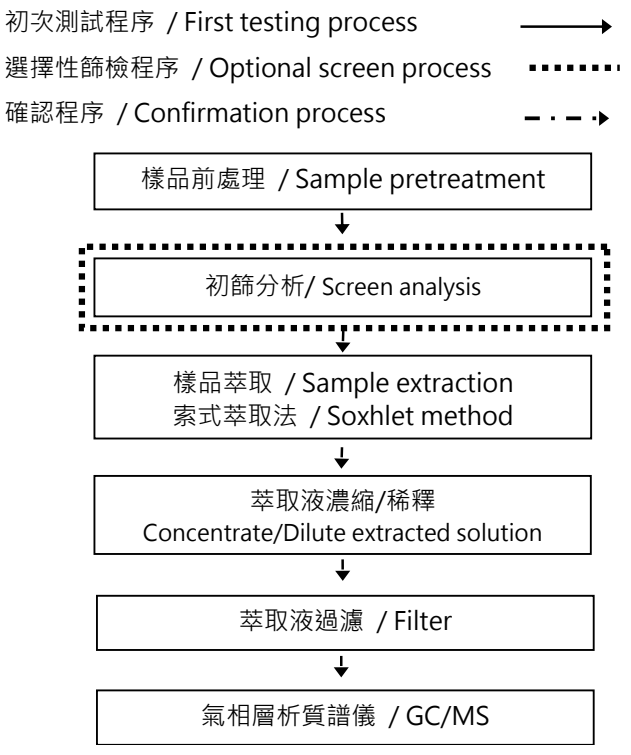
（Cr^{6+} test method excluded）



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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs

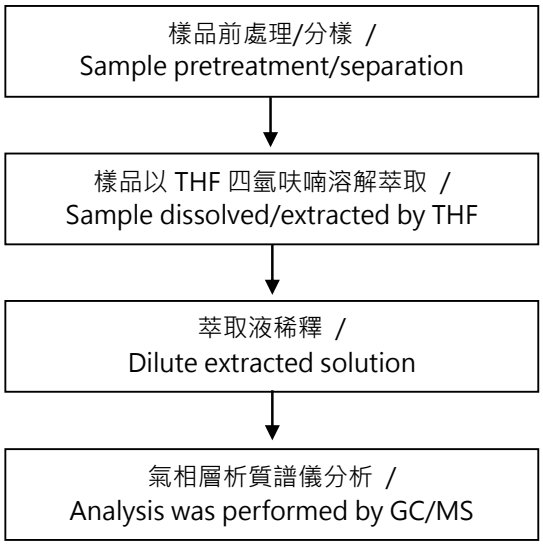


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可塑劑分析流程圖 / Analytical flow chart - Phthalate

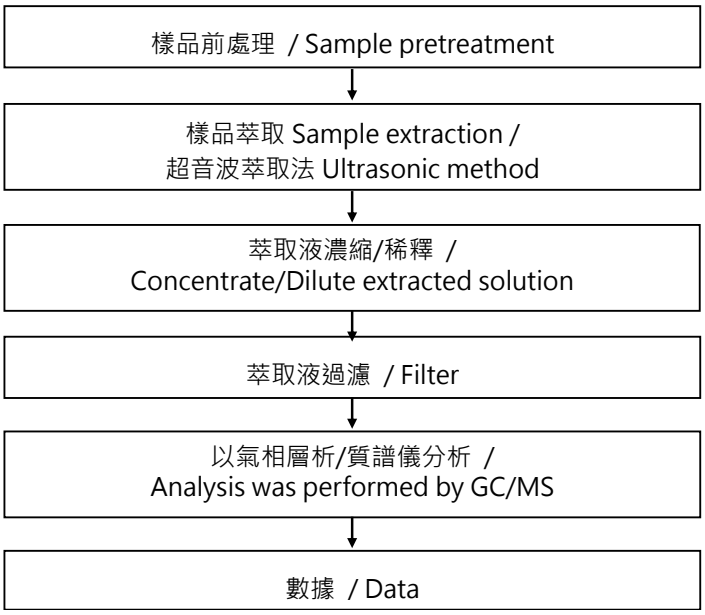
【測試方法/Test method: IEC 62321-8】



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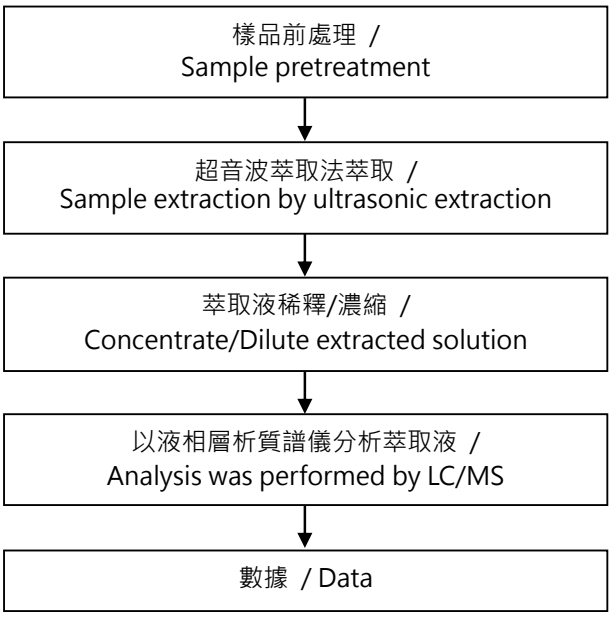
六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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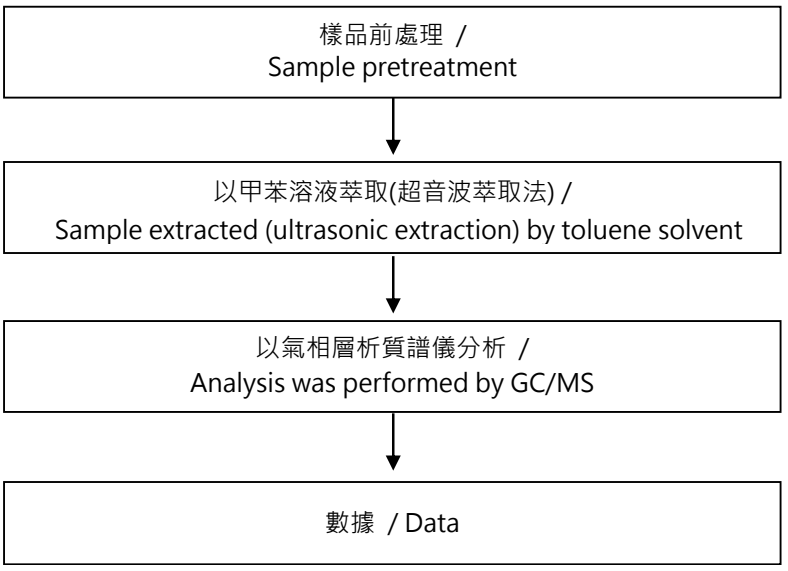
四溴雙酚-A 分析流程圖 / Analytical flow chart - TBBP-A



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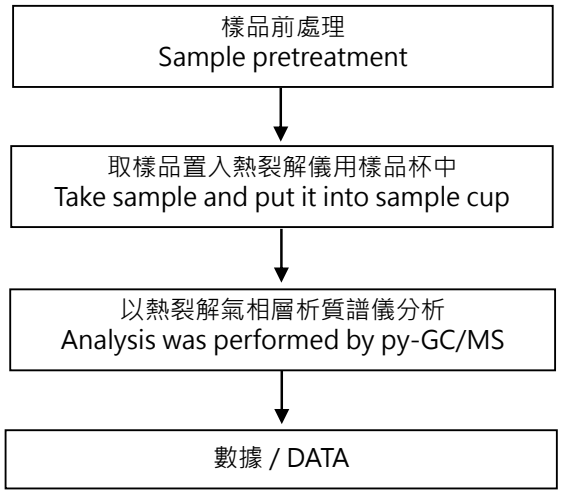
多環芳香烴分析流程圖 /
Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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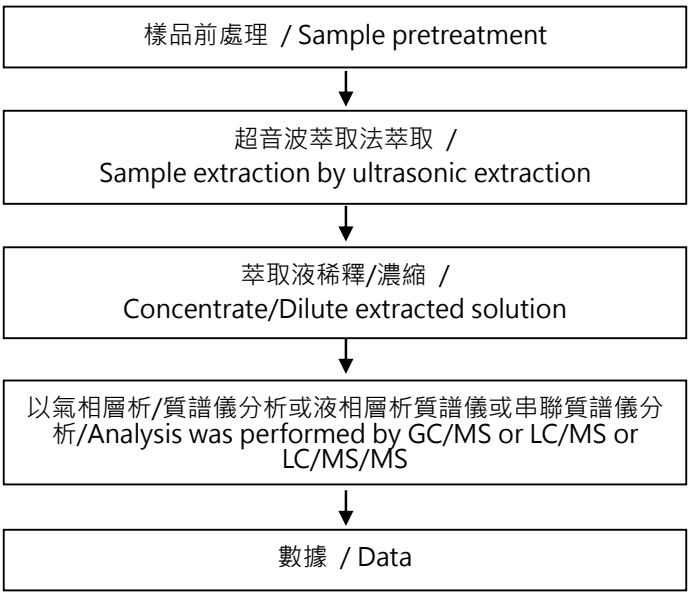
紅磷分析流程 / Analytical flow chart - Red phosphorus



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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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測試報告
Test Report

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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.)

ETR22C03341



** 報告結尾 (End of Report) **

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Test Report

No. CANEC2213033605 Date: 22 Jun 2022 Page 1 of 4

Client Name : DONG GUAN HE TAI COPPER CO.;LTD

Client Address : NO.20 EAST SELOND STREET,SHATOU,CHANG AN TOWN,DONGGUAN CITY,GUANGDONG,PROVINCE

Sample Name : C2680(H65)

The above sample(s) and information were provided by the client.

SGS Job No. :	CP22-033190 - GZ
Date of Sample Received :	17 Jun 2022
Testing Period :	17 Jun 2022 - 22 Jun 2022
Test Requested :	Selected test(s) as requested by the client.
Test Method(s) :	Please refer to next page(s).
Test Result(s) :	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 (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

scan to see the report

C08719D9

Jessie Li

Jessie Li
Approved Signatory

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center Chemical Laboratory.

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-130336.003	Brassy metal

Remarks :

(1) 1 mg/kg = 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 : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	Limit	Unit	MDL	*003*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	61
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▾	-	µg/cm²	0.10	ND

Notes :

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

(2) IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(3) ▾= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

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

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center Chemical Laboratory.

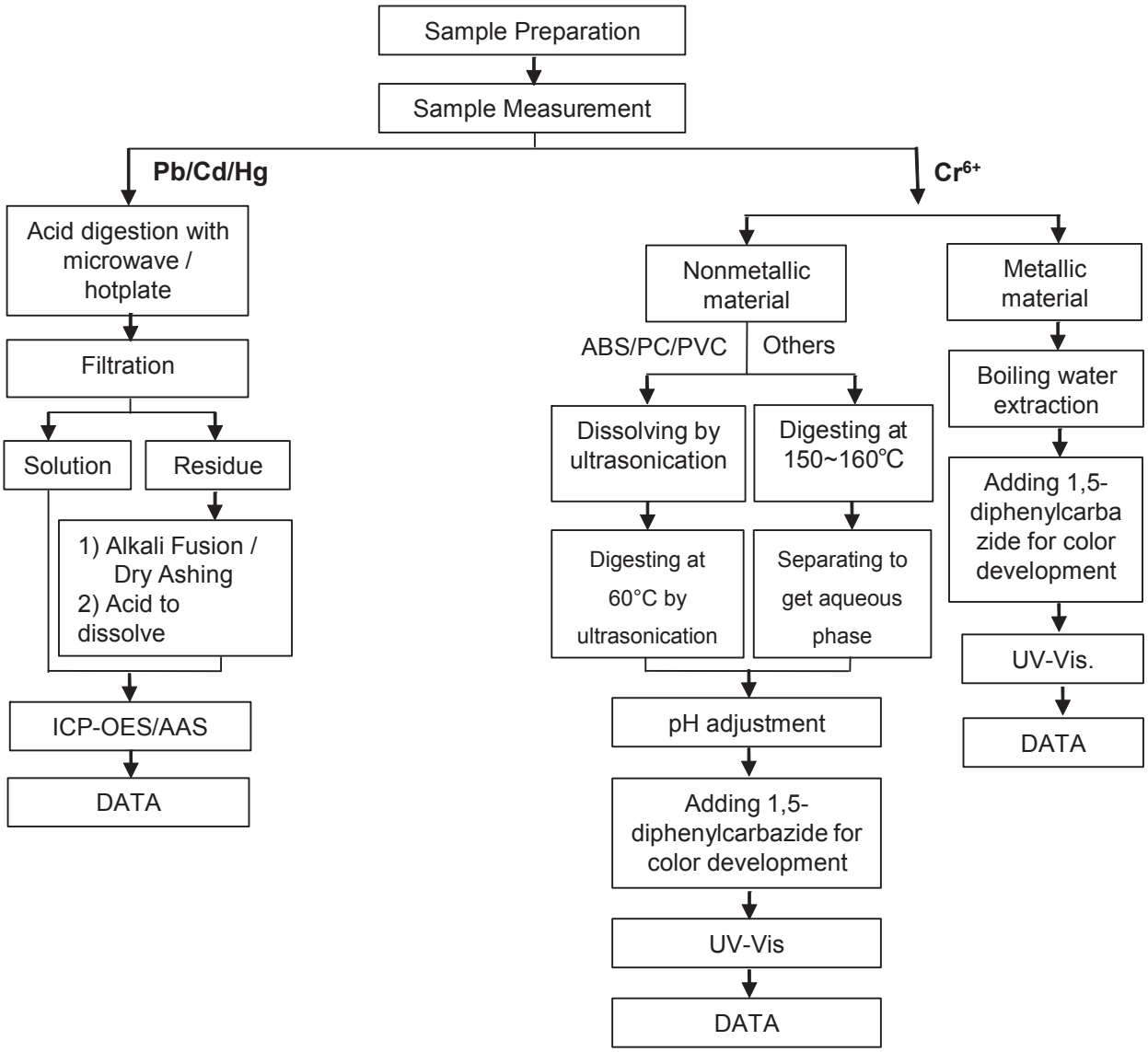
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ATTACHMENTS

Pb/Cd/Hg/Cr^{6+} Testing Flow Chart

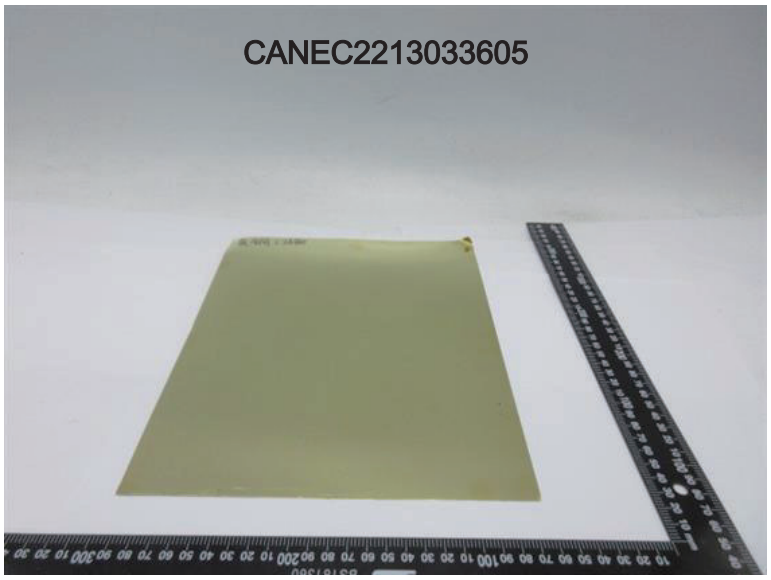
1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded).



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Sample photo:



CAN22-130336.003

SGS authenticate the photo on original report only

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E I DUPONT DE NEMOURS & CO INC
ENGINEERING POLYMERS CHESTNUT RUN PLAZA PO BOX 80713 WILMINGTON DE 19880

Material Designation: **FR50(+)(f1)**

Product Description: Polyamide 66 (PA66), flame retardant, glass reinforced, designated "Zytel" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.35	V-0	-	-	-	-	-	-	-
	0.75	V-0	0	0	130	105	105	900	960
NC, BK	1.5	V-0, 5VA	0	0	130	115	115	900	960
	3.0	V-0, 5VA	0	0	130	115	120	930	960

CTI: 2 **IEC CTI** (V): - **HVTR:** 1 **D495:** 6 **IEC Ball Pressure** (°C): -

Dielectric Strength (kV/mm): 25
ISO Tensile Strength (MPa): -
ISO Tensile Impact (kJ/m^2): -

Volume Resistivity (10^{x}ohm-cm): 11
ISO Flexural Strength (MPa): -
ISO Izod Impact (kJ/m^2): -

Dimensional Stability(%): -
ISO Heat Deflection (°C): -
ISO Charpy Impact (kJ/m^2): -

(+) Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics.

(f1) Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

NOTE (1) Material designations that are color pigmented may be followed by suffix letters and numbers. (2) Material designations may be prefixed by "ZYT" or "MIN" or "ZEN" or "DEL" or "CRA" or "RYN".

Report Date: 8/20/1996 Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.

CTI 华测检测

180000343904

Test Report

Report No. A2230093114101001

Company Name shown on Report SHENZHEN FUAN YAO PLASTIC CO. LTD

Address 102, BUILDING 4, NO. 60, JIUWEI 1ST ROAD, JIUWEI COMMUNITY, HANGCHENG STREET, BAO'AN DISTRICT, SHENZHEN

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

Sample Name	PA66
Sample Received Date	Mar. 7, 2023
Testing Period	Mar. 7, 2023 to Mar. 11, 2023

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

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

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

****

Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

****

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Approved by: Hill Zheng

Hill Zheng

Technical Manager

Date: Mar. 11, 2023

No. R262628931

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Report No. A2230093114101001

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

Test Report

Report No. A2230093114101001

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	001		
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))	N.D.	8 mg/kg	1000 mg/kg

Tested Item(s)	Result	MDL	Limit
	001		
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	5 mg/kg	1000 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	
Hexabromobiphenyl	N.D.	5 mg/kg	
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
	001		
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
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	
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	

Test Report

Report No. A2230093114101001

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	001		
Phthalates (DBP, BBP, DEHP, DIBP)			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	White plastic grains

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**

-MDL = Method Detection Limit

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

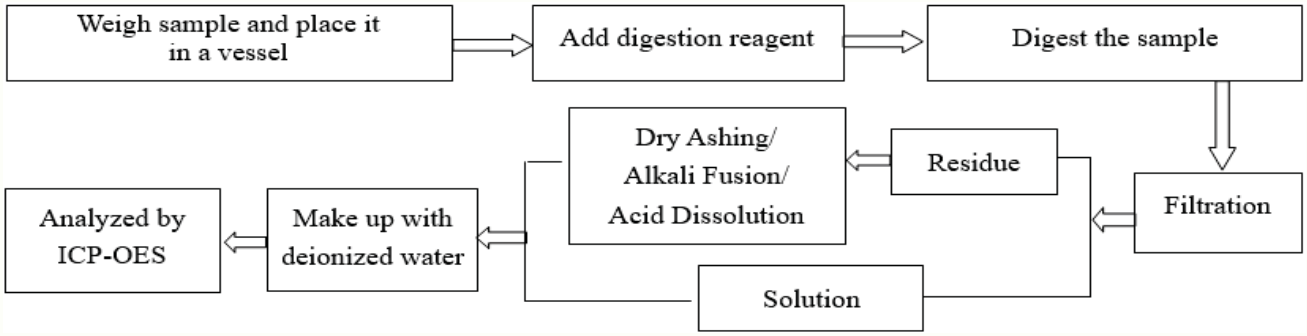
-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

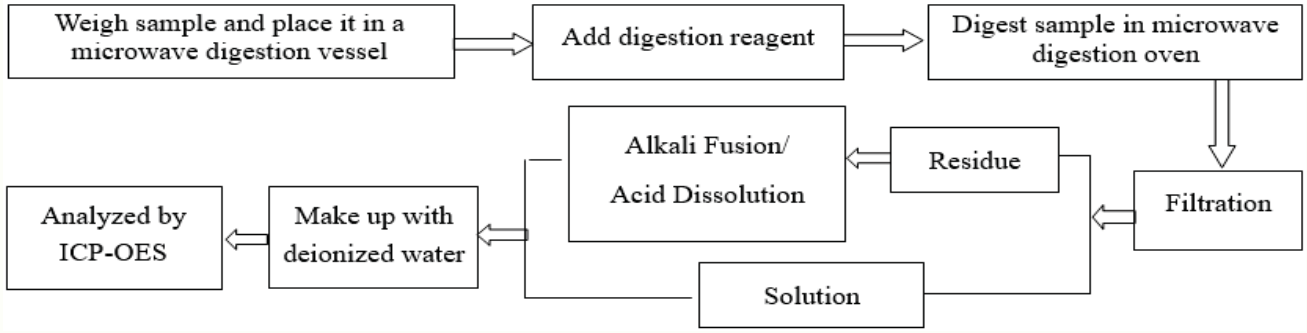
Test Report

Test Process

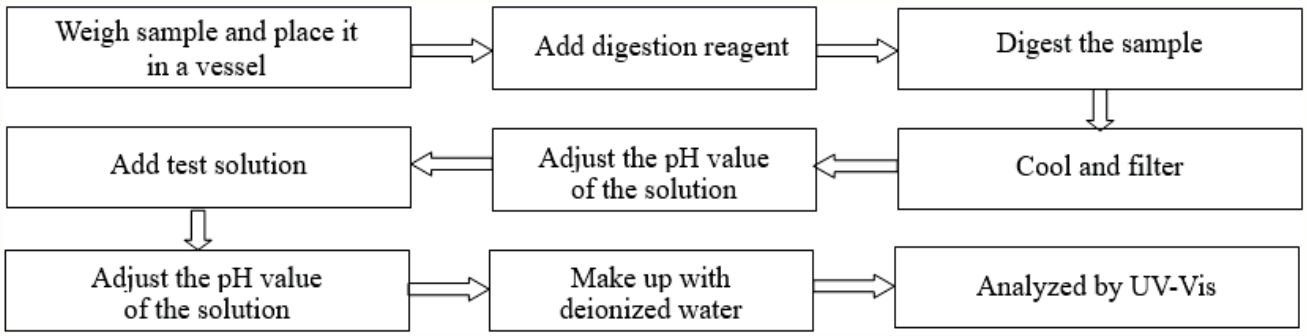
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



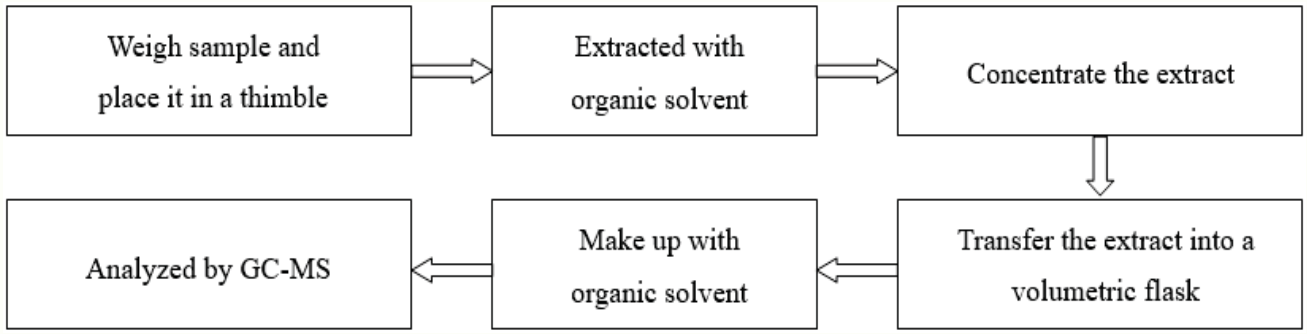
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))

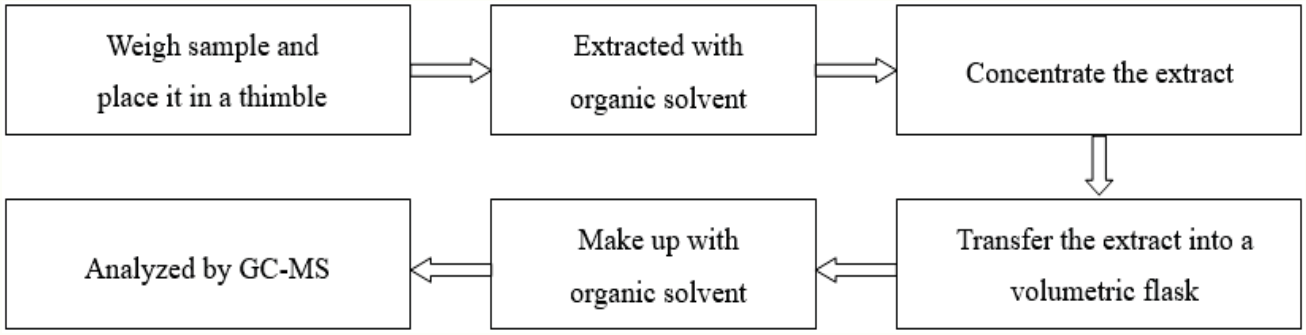


4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



Test Report

5. Phthalates (DBP, BBP, DEHP, DIBP)



Test Report

Report No. A2230093114101001

Photo(s) of the sample(s)



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3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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*** End of report ***

检测报告

编号：NGBMR22004452806　　**日期：**2023 年 01 月 05 日　　

客户名称：　宁波盛发铜业有限公司

客户地址：　宁波市镇海区澥浦镇化工区汇源路 158 号

样品名称：	铜合金
材质牌号：	C3604
批号：	2022-12-13
制造商：	宁波盛发铜业有限公司
客户参考信息：	CuZn39Pb3/CW614N,HPb58-3,C38590,HPb59-2.8

以上样品及信息由客户提供。

SGS 工作编号：	NBIN2212012224PC
收样日期：	2022 年 12 月 21 日
检测周期：	2022 年 12 月 21 日 - 2023 年 01 月 05 日
检测要求：	根据客户要求检测。
检测方法：	见后续页。
检测结果：	见后续页。

通标标准技术服务有限公司宁波分公司
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胡阳

Hedy Hu 胡阳
批准签署人

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检测结果：

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	3	NGB22-0044528-0001.C003	铜色金属棒

备注：

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL= 方法检测限
(3) ND = 未检出(< MDL)
(4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法： 参考 IEC 62321-4:2013+AMD1:2017， IEC 62321-5:2013， IEC 62321-7-1:2015， IEC 62321-6:2015 和 IEC 62321-8:2017， 采用 ICP-OES，UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	3
镉 (Cd)	100	mg/kg	2	18
铅 (Pb)	1000	mg/kg	2	31330▲
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND

检验检测专用章 Inspection & Testing Services
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检测项目	限值	单位	MDL	3
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321系列等同于 EN 62321系列。

(3) ▼ = a. 当六价铬的浓度高于0.13 μg/cm²时，样品为阳性，即含有六价铬；

b. 当六价铬的浓度为ND (低于0.10 μg/cm²) 时，样品为阴性，即未检测到六价铬；

c. 当六价铬的浓度介于0.10 μg/cm²与0.13 μg/cm²之间时，无法直接判定是否检测到六价铬，因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期，样品的六价铬检测结果仅能代表测试时样品含六价铬的状态。

(4) ▲ = 根据客户提供的声明，样品中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免，相应豁免条文(请以英文原文为准) |ANNEX III 6(c)|：铜合金中的铅含量不得超过4%。

除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。

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检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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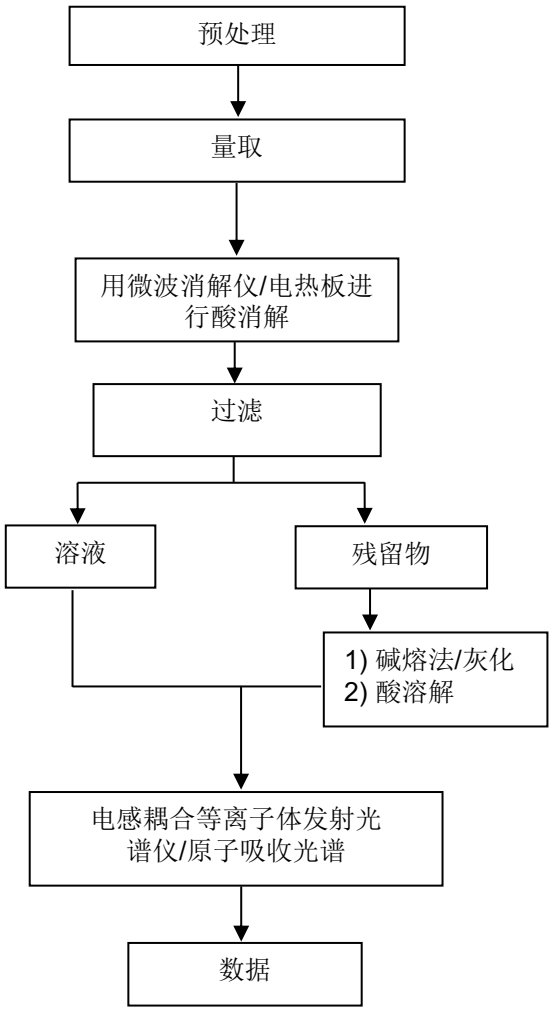
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附件

元素 (IEC62321) 检测流程图

样品按照下述流程被完全消解



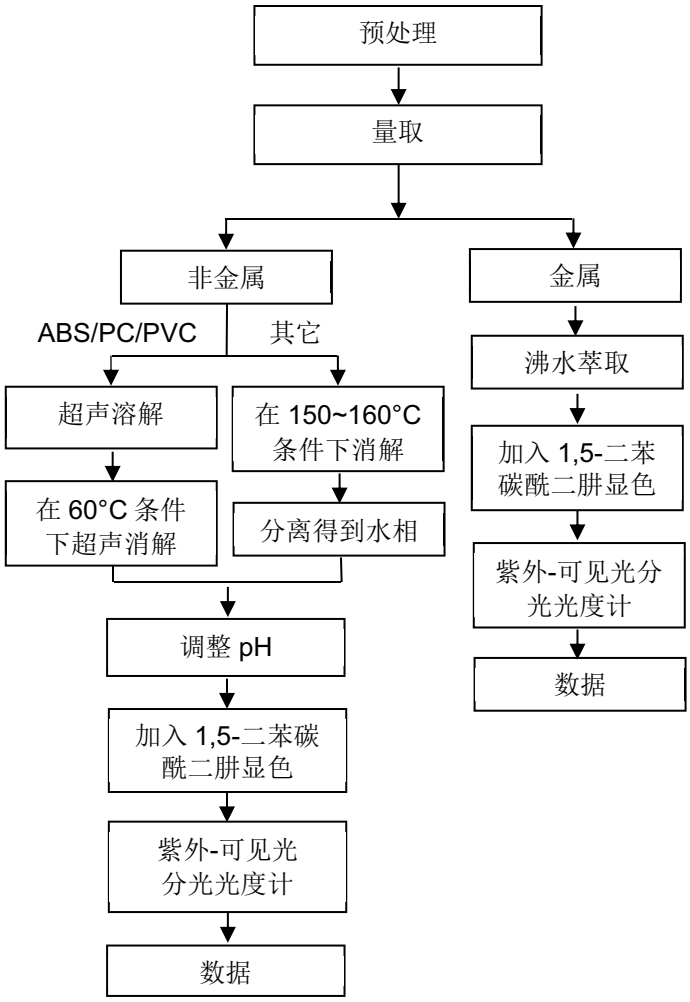
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六价铬检测流程图



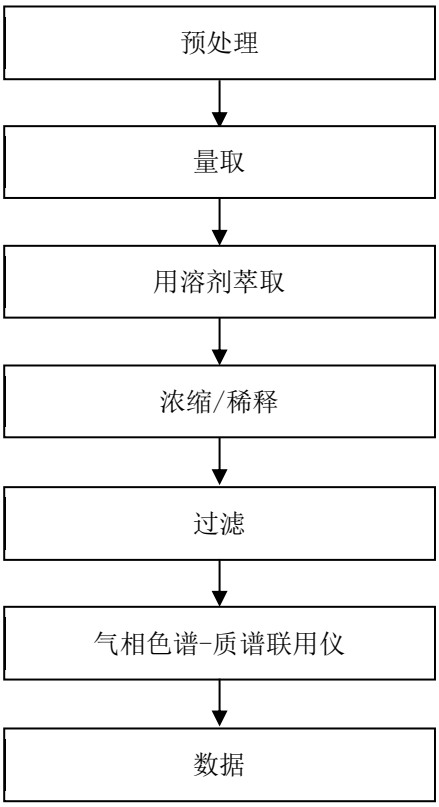
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Phthalates 检测流程图



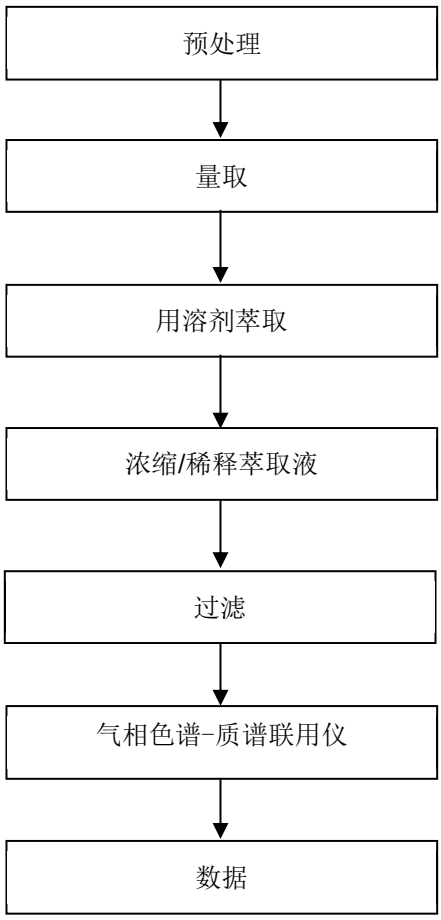
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PBBs/PBDEs 检测流程图



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样品照片：



NGB22-0044528-0001.C003

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Test Report

No. CANEC2226382501 Date: 12 Dec 2022 Page 1 of 6

Client Name : FOSHAN SHUNDE ZIHE TRADE CO.,LTD

Client Address : LUZHOU LNDUSTRIAL DEVELOPMENT ZONE,LECONG TOWN, SHUNDE DISTRICT,FOSHAN

Sample Name : SPCC

Client Ref. Info. : Used for SPCD SPCE SPCEN

The above sample(s) and information were provided by the client.

SGS Job No. : CP22-065607 - GZ

Date of Sample Received : 06 Dec 2022

Testing Period : 06 Dec 2022 - 12 Dec 2022

Test Requested : Selected test(s) as requested by the client.

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

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

Result Summary :

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU-Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS

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

scan to see the report

6D946BC0

Coral Qiu

Coral Qiu
Approved Signatory

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center Chemical Laboratory

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-263825.001	Silvery metal sheet

Remarks :

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Limit	Unit	MDL	*001*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▾	-	µg/cm²	0.10	ND
Sum of PBBs	1000	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	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit	MDL	*001*
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)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

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

(2) IEC 62321 series is equivalent to EN 62321 series

(3) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

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

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.

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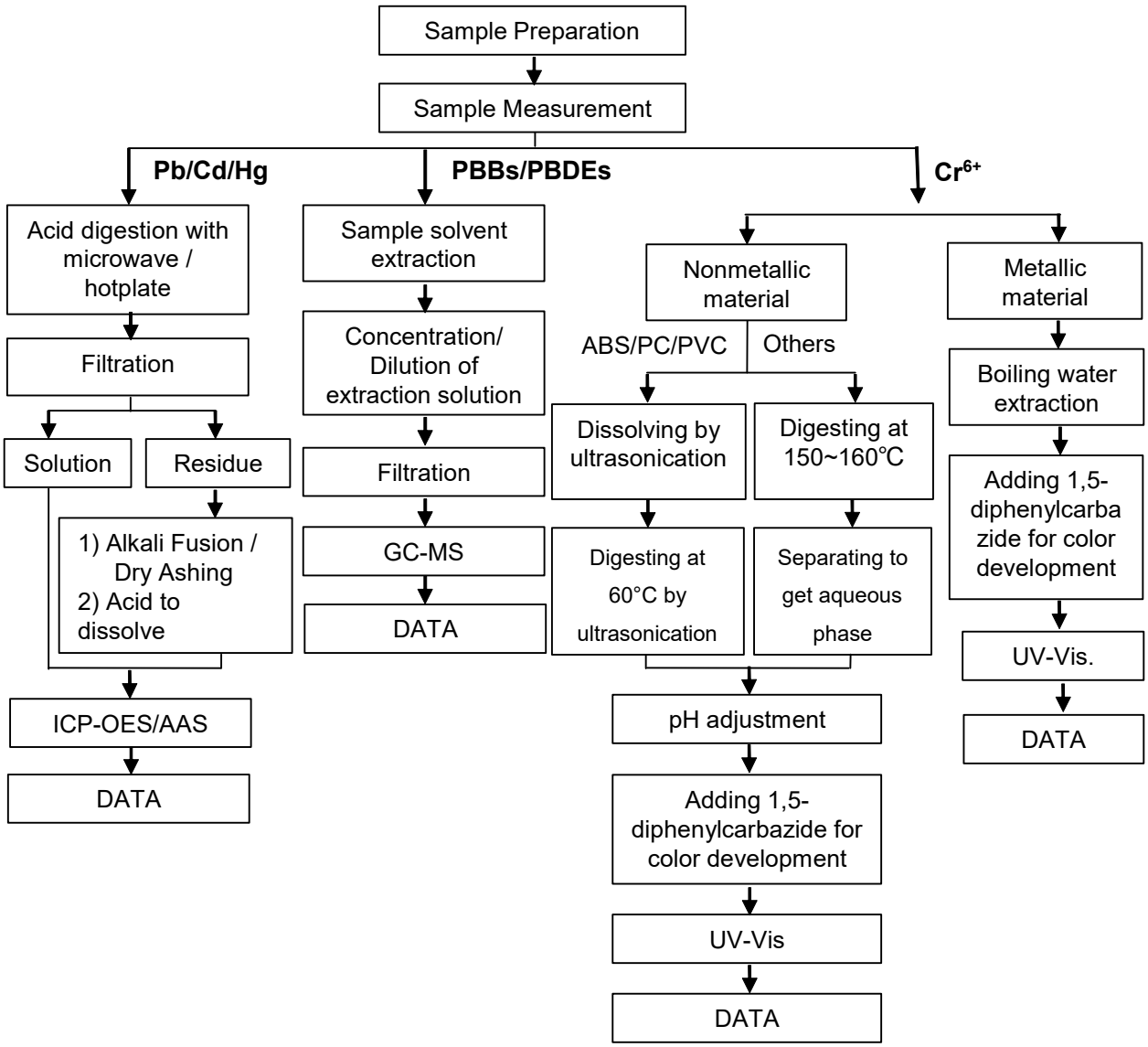
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Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr^{6+} and PBBs/PBDEs test method excluded).

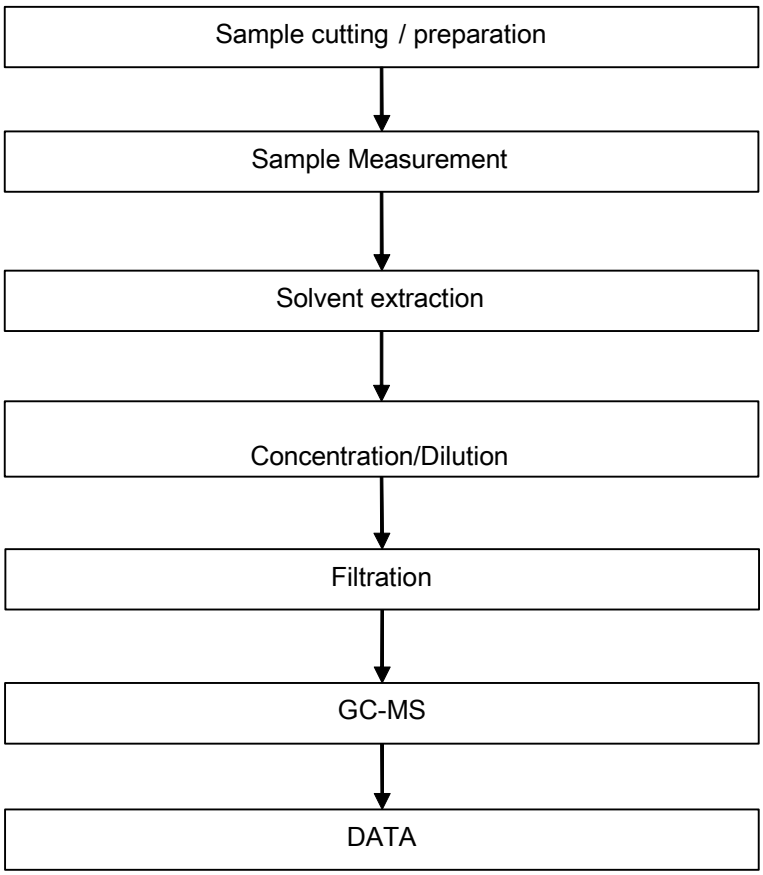


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Phthalates Testing Flow Chart



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Sample photo:



CAN22-263825.001

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*** End of Report ***

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检测报告

编号: SZXEC2300270618　　日期: 2023年02月27日　第1页,共6页

客户名称：　东莞市富瑞宏鑫电子有限公司

客户地址：　东莞市麻涌镇广麻大道126号38号楼501室

样品名称：　镀层:锡

以上样品及信息由客户提供。

SGS工作编号：　RP23-003106 - SZ

样品接收日期：　2023年02月21日

检测周期：　2023年02月21日 - 2023年02月27日

检测要求：　根据客户要求检测

检测方法：　请参见下一页

检测结果：　请参见下一页

检测结果概要：

检测要求	结论
欧盟RoHS指令2011/65/EU附录II修正指令(EU) 2015/863- 铅, 汞, 镉,六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs) , 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	符合

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检测结果 :

检测样品描述 :

样品编号	SGS样品ID	描述
SN1	SZX23-002706.003	带银色镀层的金属

备注:

(1) 1 mg/kg = 0.0001%
(2) MDL = 方法检测限
(3) ND = 未检出 (< MDL)
(4) "-" = 未规定

欧盟RoHS指令2011/65/EU附录II修正指令(EU) 2015/863- 铅, 汞, 镉,六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs) , 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法 : 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES,UV-Vis和GC-MS进行分析.

检测项目	限值	单位	MDL	*003*
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	28
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▾	-	μg/cm²	0.10	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND

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检测项目	限值	单位	MDL	*003*
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯(DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321 系列等同于 EN 62321 系列。

(3) ▾= a. 当六价铬的浓度高于0.13 μg/cm2时，样品为阳性，即含有六价铬；

b. 当六价铬的浓度为ND(低于0.10 μg/cm2)时，样品为阴性，即未检测到六价铬；

c. 当六价铬的浓度介于0.10 μg/cm2与0.13 μg/cm2之间时，无法直接判定是否检测到六价铬，因不同个体的样品表面差异可能会影响测定结果；

由于未获知样品的存储条件和生产日期，样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

除非另有说明，参照ILAC-G8:09/2019，使用简单接受（w=0）的二元判定规则进行符合性判定。

除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。

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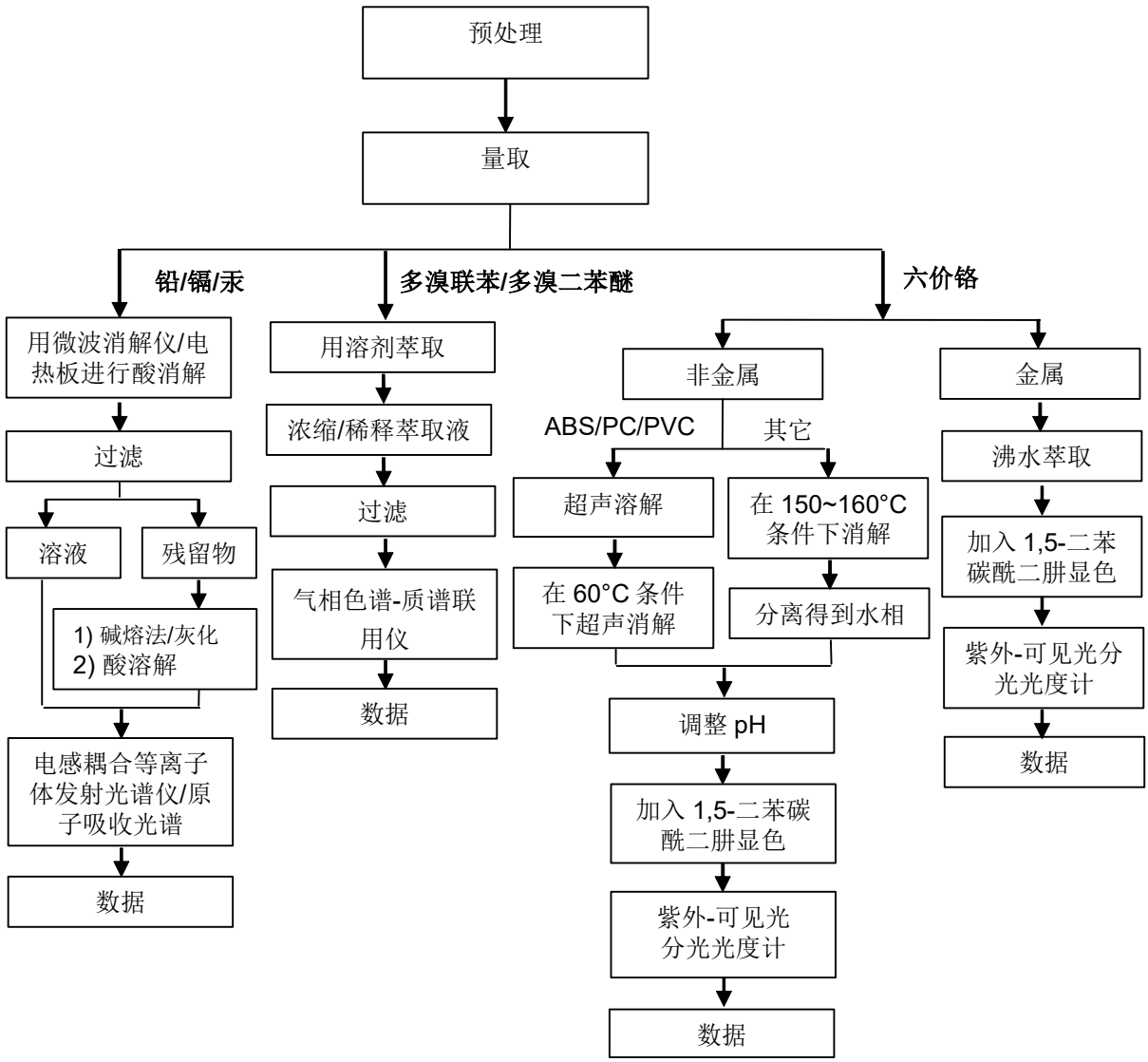
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附件

Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs 检测流程图

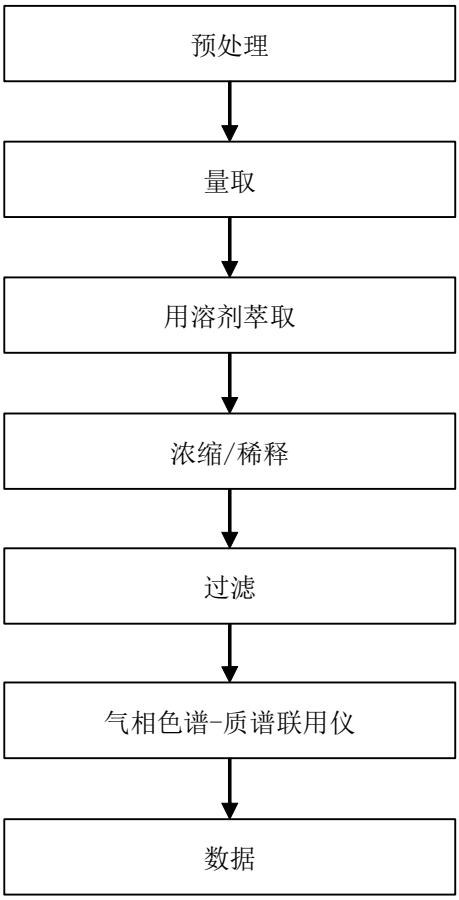
1) 样品按照下述流程被完全消解（六价铬和多溴联苯/多溴二苯醚测试除外）。



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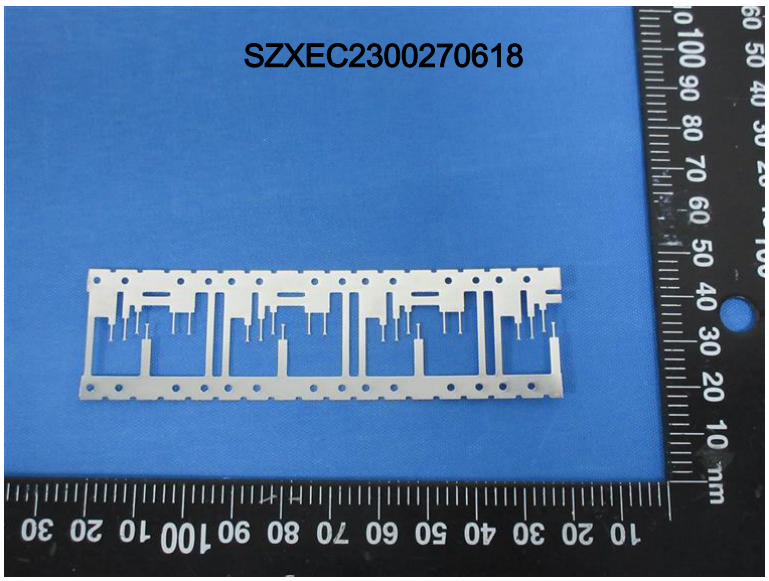
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Phthalates 检测流程图



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样品照片:



SZX23-002706.003

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检测报告

编号: SZXEC2300270610　　日期: 2023年02月27日　第1页,共6页

客户名称：　东莞市富瑞宏鑫电子有限公司

客户地址：　东莞市麻涌镇广麻大道126号38号楼501室

样品名称：　镀层:镍

以上样品及信息由客户提供。

SGS工作编号：　RP23-003106 - SZ

样品接收日期：　2023年02月21日

检测周期：　2023年02月21日 - 2023年02月27日

检测要求：　根据客户要求检测

检测方法：　请参见下一页

检测结果：　请参见下一页

检测结果概要：

检测要求	结论
欧盟RoHS指令2011/65/EU附录II修正指令(EU) 2015/863- 铅, 汞, 镉,六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs) , 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	符合

通标标准技术服务有限公司深圳分公司
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检测结果 :

检测样品描述 :

样品编号	SGS样品ID	描述
SN1	SZX23-002706.002	带银色镀层的金属

备注:

(1) 1 mg/kg = 0.0001%
(2) MDL = 方法检测限
(3) ND = 未检出 (< MDL)
(4) "-" = 未规定

欧盟RoHS指令2011/65/EU附录II修正指令(EU) 2015/863- 铅, 汞, 镉,六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs) , 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法 : 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES,UV-Vis和GC-MS进行分析.

检测项目	限值	单位	MDL	*002*
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	36
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▾	-	μg/cm²	0.10	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND

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检测项目	限值	单位	MDL	*002*
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯(DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321系列等同于 EN 62321系列。

(3) ▼= a. 当六价铬的浓度高于0.13 μg/cm2时，样品为阳性，即含有六价铬；

b. 当六价铬的浓度为ND(低于0.10 μg/cm2)时，样品为阴性，即未检测到六价铬；

c. 当六价铬的浓度介于0.10 μg/cm2与0.13 μg/cm2之间时，无法直接判定是否检测到六价铬，因不同个体的样品表面差异可能会影响测定结果；

由于未获知样品的存储条件和生产日期，样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

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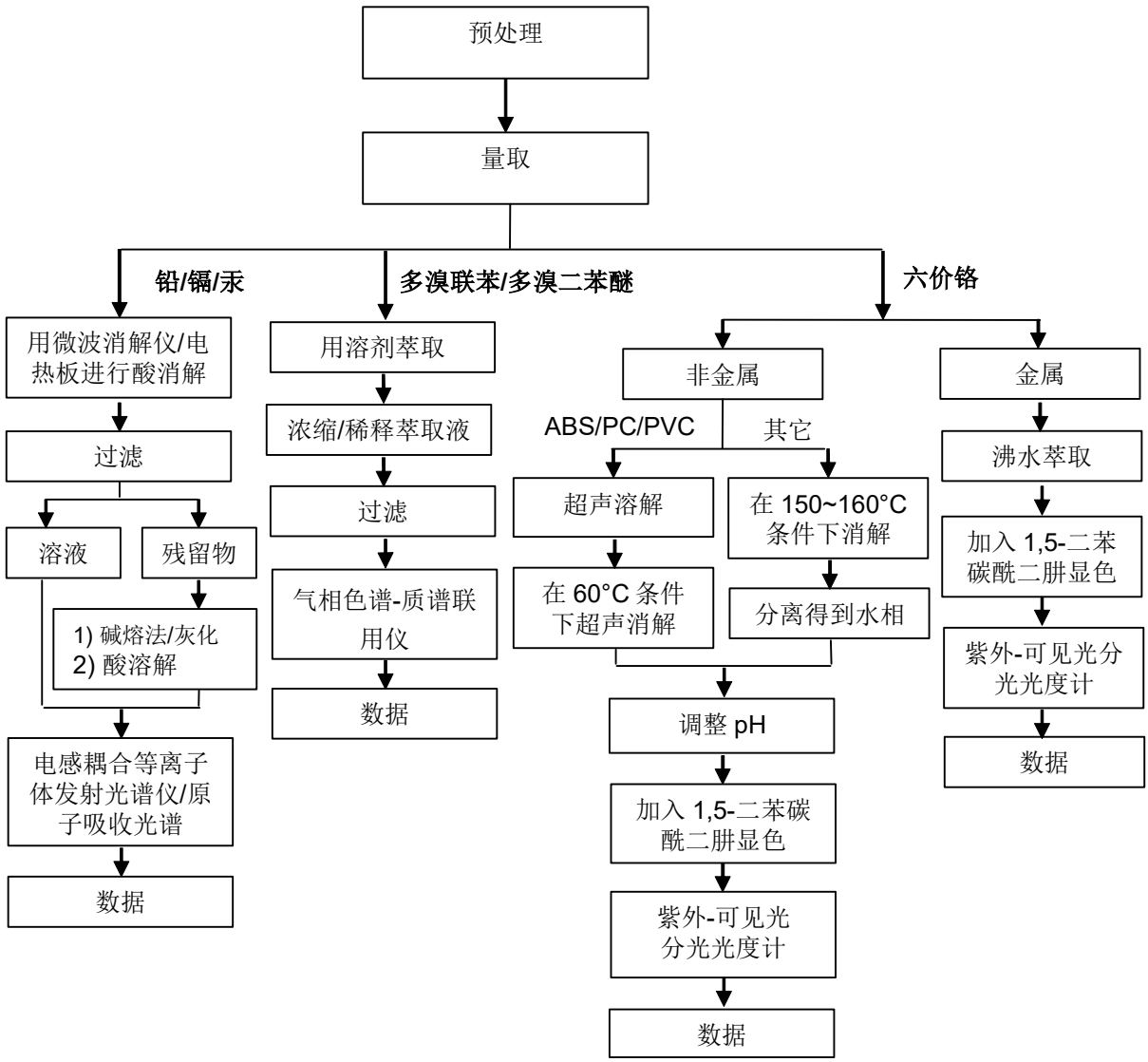
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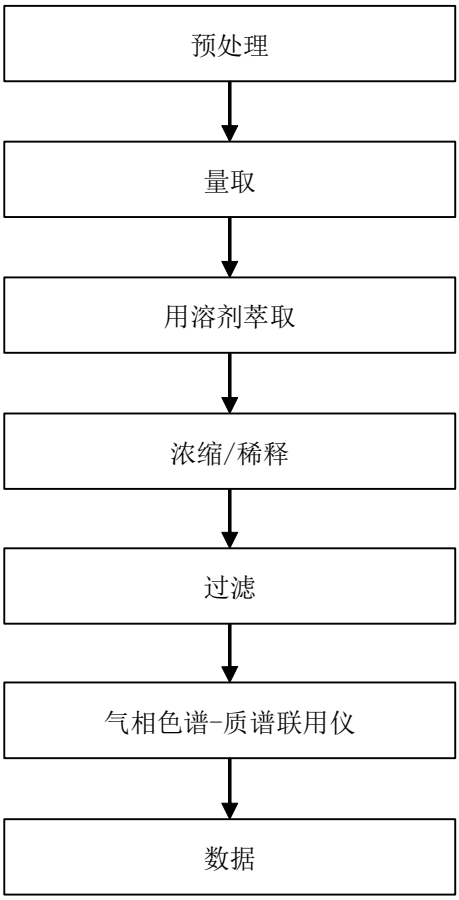
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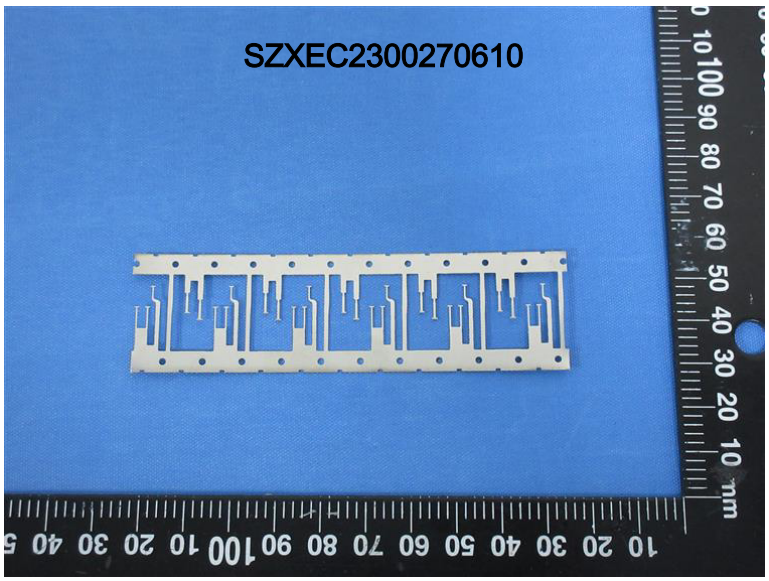
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Phthalates 检测流程图



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样品照片:



SZX23-002706.002

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检测报告

编号: SZXEC2300270602　　日期: 2023年02月27日　第1页,共6页

客户名称：　东莞市富瑞宏鑫电子有限公司

客户地址：　东莞市麻涌镇广麻大道126号38号楼501室

样品名称：　镀层:金

以上样品及信息由客户提供。

SGS工作编号：　RP23-003106 - SZ

样品接收日期：　2023年02月21日

检测周期：　2023年02月21日 - 2023年02月27日

检测要求：　根据客户要求检测

检测方法：　请参见下一页

检测结果：　请参见下一页

检测结果概要：

检测要求	结论
欧盟RoHS指令2011/65/EU附录II修正指令(EU) 2015/863- 铅, 汞, 镉,六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs) , 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	符合

通标标准技术服务有限公司深圳分公司

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scan to see the report

1A4D8568

Mescal_Ye叶晓键

批准签署人

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检测结果 :

检测样品描述 :

样品编号	SGS样品ID	描述
SN1	SZX23-002706.001	带金色镀层的金属

备注：

(1) 1 mg/kg = 0.0001%
(2) MDL = 方法检测限
(3) ND = 未检出 (< MDL)
(4) "-" = 未规定

欧盟RoHS指令2011/65/EU附录II修正指令(EU) 2015/863- 铅, 汞, 镉,六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs) , 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法 : 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES,UV-Vis和GC-MS进行分析.

检测项目	限值	单位	MDL	*001*
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	46
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▾	-	μg/cm²	0.10	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND

检验检测专用章 Inspection & Testing Services
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检测项目	限值	单位	MDL	001
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯(DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321 系列等同于 EN 62321 系列。

(3) ▾= a. 当六价铬的浓度高于0.13 μg/cm2时，样品为阳性，即含有六价铬；

b. 当六价铬的浓度为ND(低于0.10 μg/cm2)时，样品为阴性，即未检测到六价铬；

c. 当六价铬的浓度介于0.10 μg/cm2与0.13 μg/cm2之间时，无法直接判定是否检测到六价铬，因不同个体的样品表面差异可能会影响测定结果；

由于未获知样品的存储条件和生产日期，样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

除非另有说明，参照ILAC-G8:09/2019，使用简单接受（w=0）的二元判定规则进行符合性判定。

除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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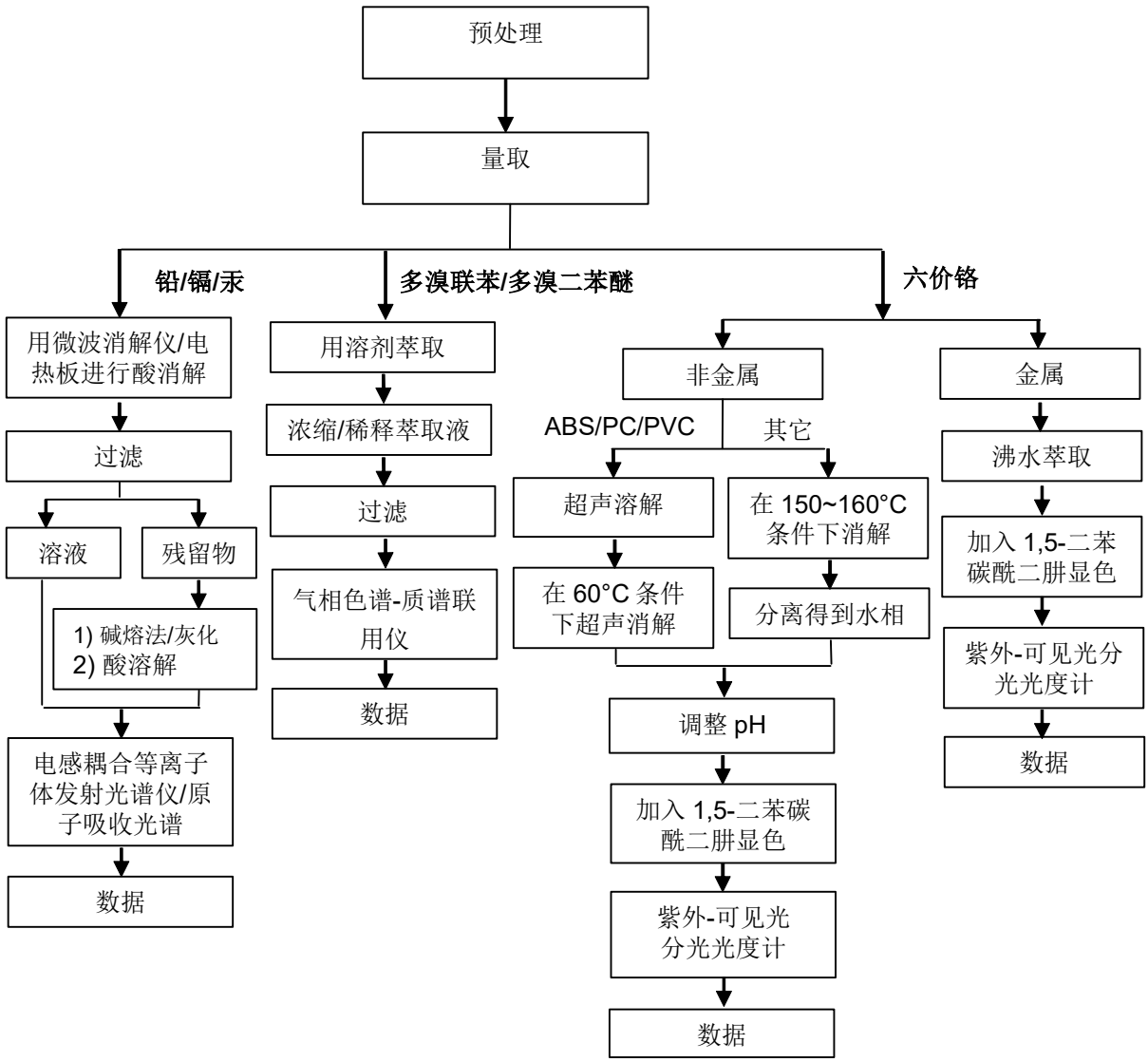
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附件

Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs 检测流程图

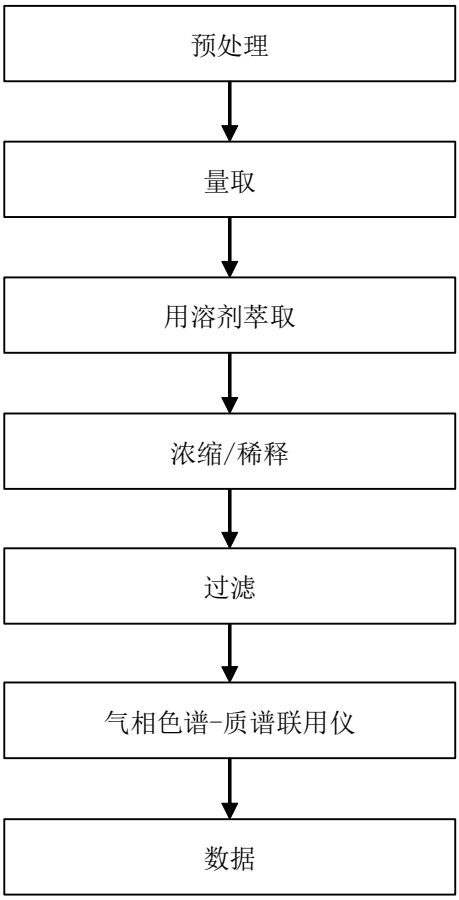
1) 样品按照下述流程被完全消解（六价铬和多溴联苯/多溴二苯醚测试除外）。



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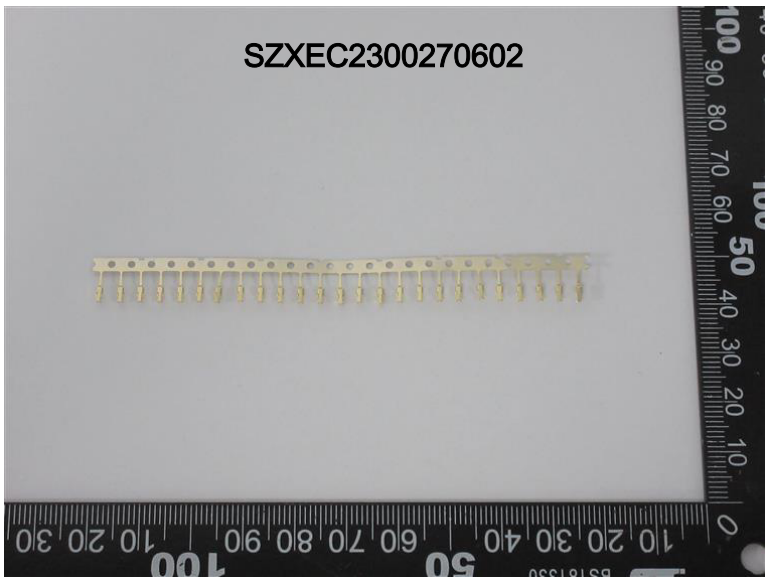
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Phthalates 检测流程图



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