

承認書

APPROVED DATA

客戶名稱： 立创商务电子有限公司

客戶料號： C4944065

廠商料號： 712-41-035W00

品名規格： _____

審 核	送 樣 日 期	承 認 者

 頻銳科技股份有限公司
PINREX TECHNOLOGY CORP.

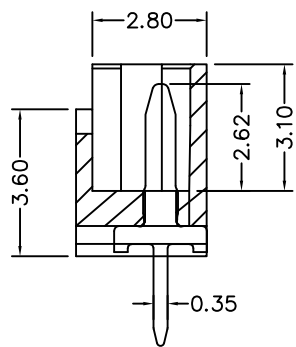
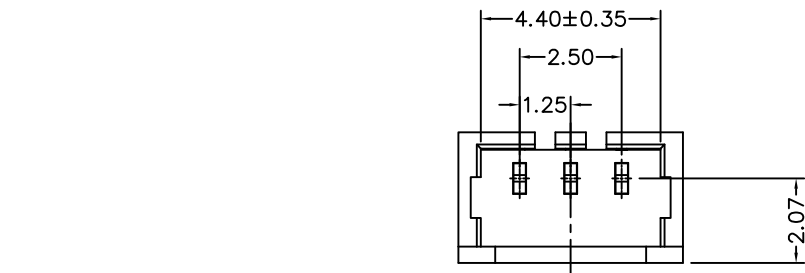
臺灣省臺北縣三重市重新路5段609巷16號3樓之3
TEL : 886-2-2999-9001 FAX : 886-2-2999-9002

 深圳市瑞士康電子有限公司
SHENZHEN REXCONN ELECTRONIC LIMITED.

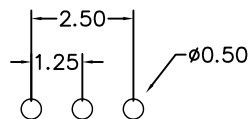
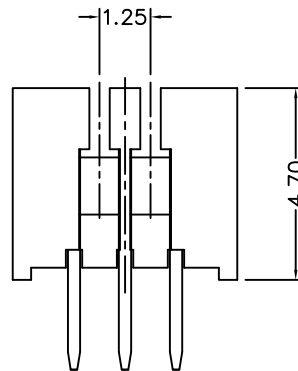
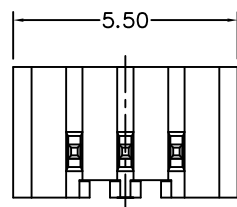
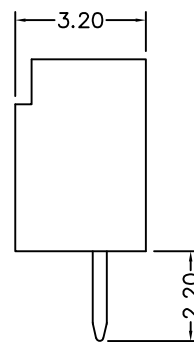
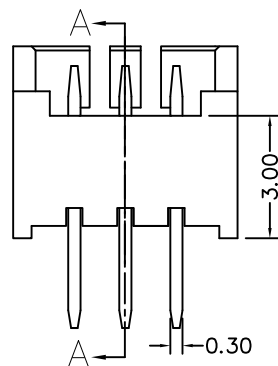
廣東省深圳市光明新區公明辦事處合水口社區第七工業區第一棟伯尼大廈3樓
TEL : +86-755-29626418 FAX : +86-755-29626218

昆山立河精密電子有限公司
Kunshan Leopold Precision Electron Co., Ltd.

江蘇省昆山市千燈鎮協易路150號
TEL : 86-512-5740-9555 FAX : 86-512-5740-8233



SECTION A-A



Recommended P.C.B Layout

MATERIAL

Insulator : NY46 UL94-V0

Contact Pin : Brass

SPECIFICATION

Current Rate: 1AMP

Dielectric voltage : 500V AC for one minute

Insulation Resistance: 500MΩMIN

Contact Resistance: 20MΩMAX

Operating Temperature: -40°C to +105°C

712-4 1-03 5 W 00
 1 2 3 4 5

1. 4: Green Product High Temp
2. No. of contacts per row
3. G: Gold flash
T: Tin plated
5: Matte Tin plated
4. W: White insulator
5. Pinrex internal code.



				TOLERANCE				OLD PART NO.		TITLE		頻銳科技股份有限公司 PINREX TECHNOLOGY CORP.
				.0 =±.30 .00 =±.20 .000 =±.XXX .0000=±. ANG.=±3'		UNITS : mm				1.25mm HEADER 180° TYPE Bag		
A	RELEASE	2022/03/25		SCALE	SIZE	SHEET	REV.	APP'D	NEW PART NO.	DRAW NO.		712-41-035W00
REV.	DESCRIPTION	DATE		NONE	A4	1 OF 1	A	李剑	712-41-035W00	712-41-035W00		

Stanyl® TE250F6

PA46-GF30 FR(17)

30% 玻璃加固, 热稳定, 阻燃剂

性能	典型资料	单位	测试方法
流变性能			
模塑收缩率(平行)	0.4/*	%	Sim. to ISO 294-4
模塑收缩率(垂直)	1.1/*	%	Sim. to ISO 294-4
机械性能			
干/湿			
拉伸模量	12000/8000	MPa	ISO 527-1/-2
拉伸模量 (120 ° C)	7500	MPa	ISO 527-1/-2
拉伸模量 (160 ° C)	6200	MPa	ISO 527-1/-2
断裂应力	180/125	MPa	ISO 527-1/-2
断裂应力 (120 ° C)	105	MPa	ISO 527-1/-2
断裂应力(160 ° C)	95	MPa	ISO 527-1/-2
断裂伸长率	2.5/3.5	%	ISO 527-1/-2
断裂应变(120 ° C)	4	%	ISO 527-1/-2
断裂应变(160 ° C)	4	%	ISO 527-1/-2
弯曲模量	11000/7300	MPa	ISO 178
弯曲模量 (120 ° C)	6500	MPa	ISO 178
弯曲模量 (160 ° C)	5000	MPa	ISO 178
无缺口简支梁冲击强度(+23 ° C)	60/60	kJ/m ²	ISO 179/1eU
无缺口简支梁冲击强度(-30 ° C)	50/50	kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度(+23 ° C)	11/11	kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度(-30 ° C)	10/10	kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度(23 ° C)	11/11	kJ/m ²	ISO 180/1A
悬臂梁缺口冲击强度(-40 ° C)	11/11	kJ/m ²	ISO 180/1A
热性能			
干/湿			
熔融温度(10 ° C/min)	295/*	°C	ISO 11357-1/-3
热变形温度(1.80 MPa)	290/*	°C	ISO 75-1/-2
线膨胀系数(平行)	0.25/*	E-4/°C	ISO 11359-1/-2
线膨胀系数(垂直)	0.55/*	E-4/°C	ISO 11359-1/-2
燃烧性 (1.5mm名义厚度)	V-0/*	class	IEC 60695-11-10
测试用试样的厚度	1.5/*	mm	IEC 60695-11-10

28.09.2011

DSM所提供的所有有关其产品的资料, 无论数据、建议或其他信息, 都是经过研究的, 值得信赖的。但是DSM对上述信息, 诸如: 牌号、适用范围、特定用途、处理或任何由此在加工、处理等实务中引发的不确定因素和后果不承担责任。文档使用者在实务中应确保数据的可靠性, 质量检验和其他性能以及由此而引起的后果承担全部责任。标准值只是象征性的, 不可解释为具有约束力的规范。

性能

Stanyl® TE250F6

性能	典型资料	单位	测试方法
UL认证	UL/*	-	-
厚度为h时的燃烧性	V-0/*	class	IEC 60695-11-10
测试用试样的厚度	0.35/*	mm	IEC 60695-11-10
UL认证	UL/*	-	-
热指数5000 hrs	163	°C	IEC 60216/ISO 527-1/-2
电性能	干/湿		
体积电阻率	1E13/1E8	Ohm*m	IEC 60093
介电强度	30/20	kV/mm	IEC 60243-1
相对漏电起痕指数	225/-	-	IEC 60112
其它性能	干/湿		
吸湿性	1.6/*	%	Sim. to ISO 62
密度	1680/-	kg/m ³	ISO 1183

28.09.2011

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iq.ul.com

Component - Plastics [\[guide info\]](#)**E47960****DSM Engineering Plastics B V**

Urmonderbaan 22, Geleen 6167 RD NL

TE250F6(h1)(j)

Polyamide 46 (PA46), glass reinforced, flame retardant, "Stanyl", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.35	V-0	0	0	-	-	-
	0.75	V-0	0	0	140	110	120
	1.5	V-0	0	0	140	125	125
	3.0	V-0	0	0	140	130	130

Comparative Tracking Index (CTI): 2

Dielectric Strength (kV/mm): 23

High-Voltage Arc Tracking Rate (HVTR): 1

Dimensional Stability (%): 0.0

Inclined Plane Tracking (IPT): -

Volume Resistivity (10^x ohm-cm): -High Volt, Low Current Arc Resis
(D495): 6

(h1) - Virgin and regrind, up to 50% by weight inclusive, in thicknesses of 0.75mm and greater, have the same basic material characteristics, except for CTI.

(j) - Virgin and regrind, up to 100% by weight inclusive, have the same basic material characteristics with respect to Flammability in the 0.75mm thickness and greater.

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: 2003-01-01

Last Revised: 2013-05-29

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**IEC and ISO Test Methods**

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.35	V-0 (ALL)
			0.75	V-0 (ALL)
			1.5	V-0 (ALL)
			3.0	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	3.0	285
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 179-2	kJ/m ²	-	-



芜湖楚江合金铜材有限公司

WUHU TRUCHUM ALLOY-COPPER CO., LTD.

产品质量保证书

CERTIFICATE OF QUALITY

07/600999-001

客户名称 (Customer)	昆山立河	发货重量 Weight (吨)	3
产品名称 (Commodity)	H65	发货日期 (Ship Date)	7月17日
生产批号 (Lot No.)	07/60/035 -001 -002	执行标准 (Carried Standard)	GB/T21652-2008

芜湖楚江合金铜材有限公司
 WUHU TRUCHUM ALLOY-COPPER CO.,CTD
 地址: 芜湖桥北工业园和平路5号
 邮编: 241008 电话: 0553-5311528
 No.5 Peace Road Bridge North Industrial Park, Wuhu City, China 241008

尺寸公差 (Size & Tolerance)

规格 Specification (mm×mm×mm)	状态 Status	厚度公差 Thickness Tolerance (mm)	宽度公差 Width Tolerance(mm)	元线公差 Circle line Tolerance(mm)
Φ 1.0	TM	/	/	±1

化学成份 (Chemical Composition)

元素名称 (Element)	铜 (Cu) %	磷 (P) %	铅 (Pb) %	铁 (Fe) %	锌 (Zn) %
含量标准 (Standard)	63.5-68	—	≤0.009	≤0.03	余量 (R)

物理性能 (Mechanical Properties)

检测项目 (Testing Items)	抗拉强度 Tensile Strength(N/mm ²)	延伸率 Elongation(%)	/	/	/
实测值 (Value)	420-450	≥25	/	/	/

一、*本保证书未报项次 (如形状精度、表面质量等) 均合格。

The other unreported items in the paper, such as shape precision, appearance quality etc. are up to standard.

二、本保证书希妥善保管, 如对我公司的产品品质有异议, 持保证书在一个月内在与我公司联系, 本公司将竭诚为您服务。

Pls always keep this paper safe and contact us within one month if you have any disagreements with our quality. We will serve you wholeheartedly.

三、本保证书盖章有效 (复印无效)。

We accept paper with seal. (Duplicate is invalid)

质量主管: 方荣

Manager of Quality Assurance Dept.

实验人: 孙伟伟

Operator of text: sun wei wei



质量专用章:

Seal of Quality Assurance Dept.

膜 厚 測 試 報 告 書

樣品名稱: 端子

電鍍廠商:全詠

Fischerscope XRAY XULM XYm

Product: 4 / Sn/Ni/CuZn

Dir.: Fischer

Block: 1

Application: 4 / Sn/Ni/CuZn

n=1	Sn1= 126.73	μ''	Ni 2 = 40.2	μ''
n=2	Sn1= 127.02	μ''	Ni 2 = 50.3	μ''
n=3	Sn1= 125.50	μ''	Ni 2 = 47.6	μ''
n=4	Sn1= 123.08	μ''	Ni 2 = 44.2	μ''
n=5	Sn1= 124.16	μ''	Ni 2 = 48.3	μ''

Mean	125.298	μ''	46.12	μ''
Standard deviation	1.67864	μ''	3.973	μ''
C.O.V. (%)	1.33972		8.6151036	
Range	3.940	μ''	10.100	μ''
Number of readings	5		5	
Min. reading	123.08	μ''	40.2	μ''
Max. reading	127.02	μ''	50.3	μ''
Measuring time	20	sec		

Date: 2022-7-12 Time: **16:6:50**

判定標準: (Sn:100U'' -150U'' , Ni:40U'' -60U'')

結果: OK

作成:邓连飞

審核: 杨树香

地址:广东省深圳市光明新区公明办事处合水口社区第七工业区第一栋伯尼大厦3楼

電話:0755-29626418

測試報告

Test Report

號碼(No.): ETR21C06015

日期(Date): 05-Jan-2022

頁數(Page): 1 of 7

帛眾股份有限公司 (HEXAPALS COMPANY LTD.)

台南市東區裕孝三街46號 (NO. 46, YUSHIAU 3RD ST., E. DIST., TAINAN CITY, 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/on behalf of the applicant as) :

送樣廠商(Sample Submitted By) : 帛眾股份有限公司 (HEXAPALS COMPANY LTD.)
樣品名稱(Sample Name) : STANYL
樣品型號(Style/Item No.) : 46HF5040 NA,46HF5145 NA,TE250F3 NA,TE250F6 NA,TE250F8 NA,TE250F9 NA,TE251F7 NA,TS250F6D NA,TS250F8 NA,TS350 NA

收件日(Sample Receiving Date) : 28-Dec-2021
測試期間(Testing Period) : 28-Dec-2021 to 05-Jan-2022

測試需求(Test Requested) : 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).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)
結論(Conclusion) : 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.)


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



PIN CODE: 544CCB1E

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測試報告

Test Report

號碼(No.): ETR21C06015

日期(Date): 05-Jan-2022

頁數(Page): 2 of 7

帛眾股份有限公司 (HEXAPALS COMPANY LTD.)

台南市東區裕孝三街46號 (NO. 46, YUSHIAU 3RD ST., E. DIST., TAINAN CITY, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 米色塑膠粒 (BEIGE 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)	限值 (Limit)
				No.1	
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	11.1	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

號碼(No.): ETR21C06015

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頁數(Page): 3 of 7

帛眾股份有限公司 (HEXAPALS COMPANY LTD.)

台南市東區裕孝三街46號 (NO. 46, YUSHIAU 3RD ST., E. DIST., TAINAN CITY, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
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
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		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

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 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. 符合性結果之判定係以測試結果與限值做比較。(The statement of compliance conformity is based on comparison of testing results and limits.)

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測試報告

Test Report

號碼(No.): ETR21C06015

日期(Date): 05-Jan-2022

頁數(Page): 4 of 7

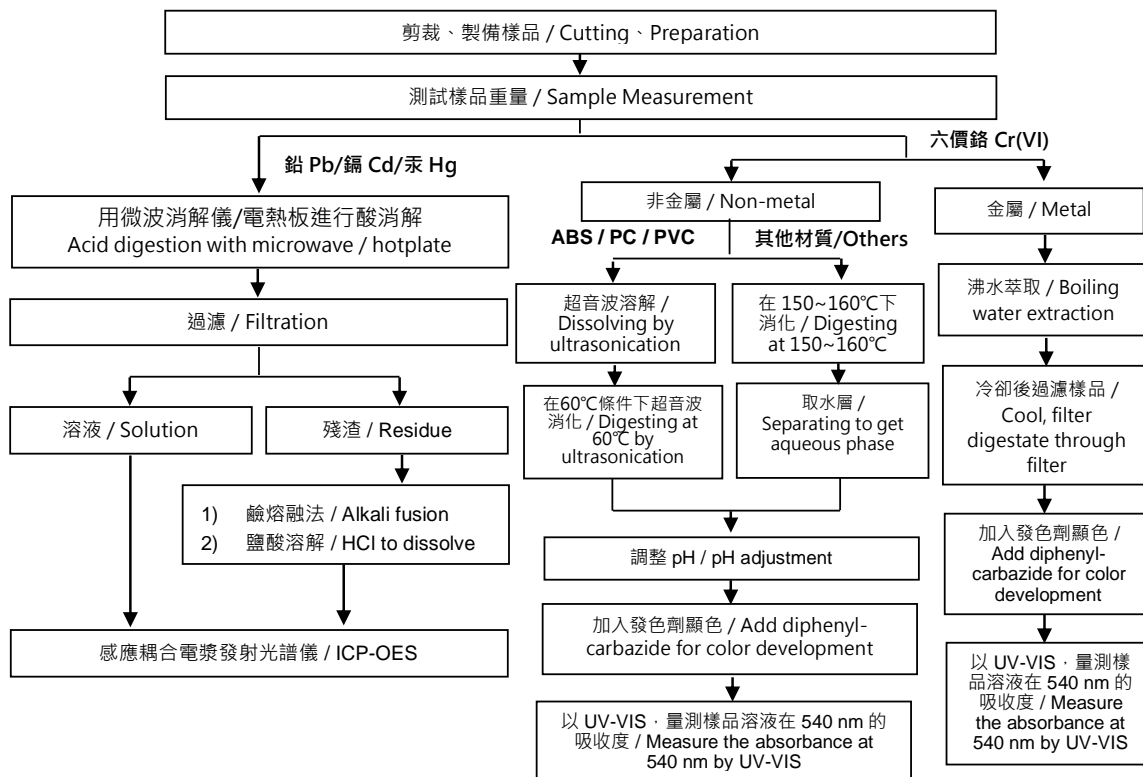
帛眾股份有限公司 (HEXAPALS COMPANY LTD.)

台南市東區裕孝三街46號 (NO. 46, YUSHIAU 3RD ST., E. DIST., TAINAN CITY, TAIWAN)

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)

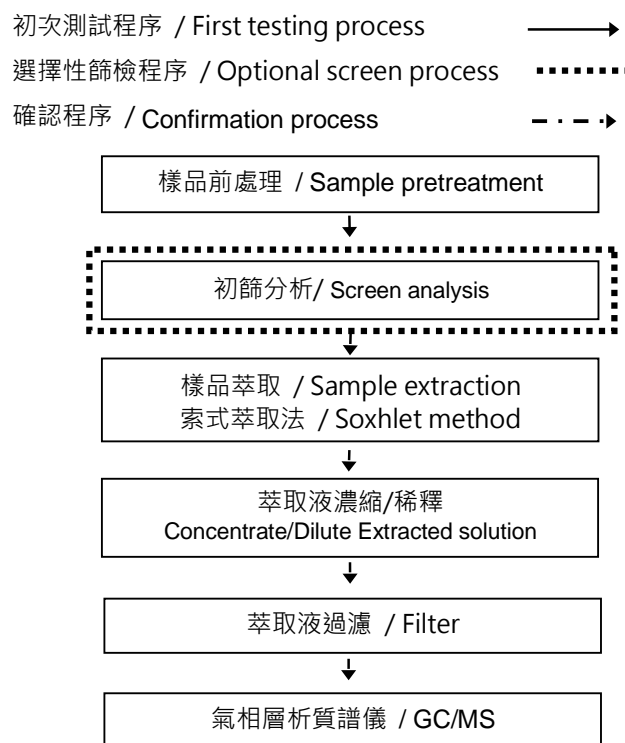


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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



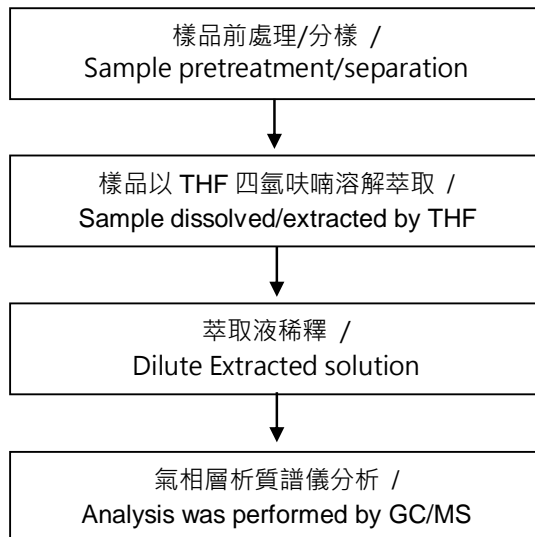
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台南市東區裕孝三街46號 (NO. 46, YUSHIAU 3RD ST., E. DIST., TAINAN CITY, TAIWAN)

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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測試報告

Test Report

號碼(No.): ETR21C06015

日期(Date): 05-Jan-2022

頁數(Page): 7 of 7

帛眾股份有限公司 (HEXAPALS COMPANY LTD.)

台南市東區裕孝三街46號 (NO. 46, YUSHIAU 3RD ST., E. DIST., TAINAN CITY, TAIWAN)

* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

ETR21C06015



** 報告結尾 (End of Report) **

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Test Report

No. SHAMPLP2128452201

Date: 04 Jan 2022

Page 1 of 8

WUHU TRUCHUM ALLOY-COPPER CO.,LTD.
NORTH INDUSTRIAL AREA OF THE BRID WUHU

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

SGS Job No. : SUIN2112012051PC NJIN2112006528PS - SUZ
Material and Mark : H65
Date of Sample Received : 28 Dec 2021
Testing Period : 28 Dec 2021 - 04 Jan 2022
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Lilac Wei
Approved Signatory

scan to see the report



SHAMPLP2128452201



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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center - China Headquarters

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679
t HL (86-21) 61402594 f HL (86-21) 61156899

www.sgs.com
sgs.china@sgs.com

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-284522.001	Yellow metal wire

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+AMD1:2017, IEC62321-5:2013, IEC62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, 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	24
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	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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 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Di-2-Ethyl Hexyl 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. 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
- (2) ▽ = 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.

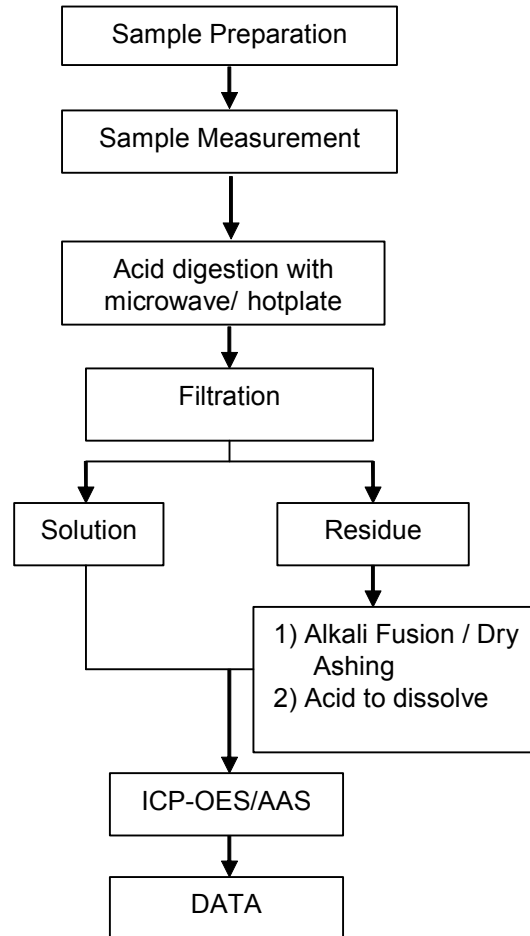


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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.

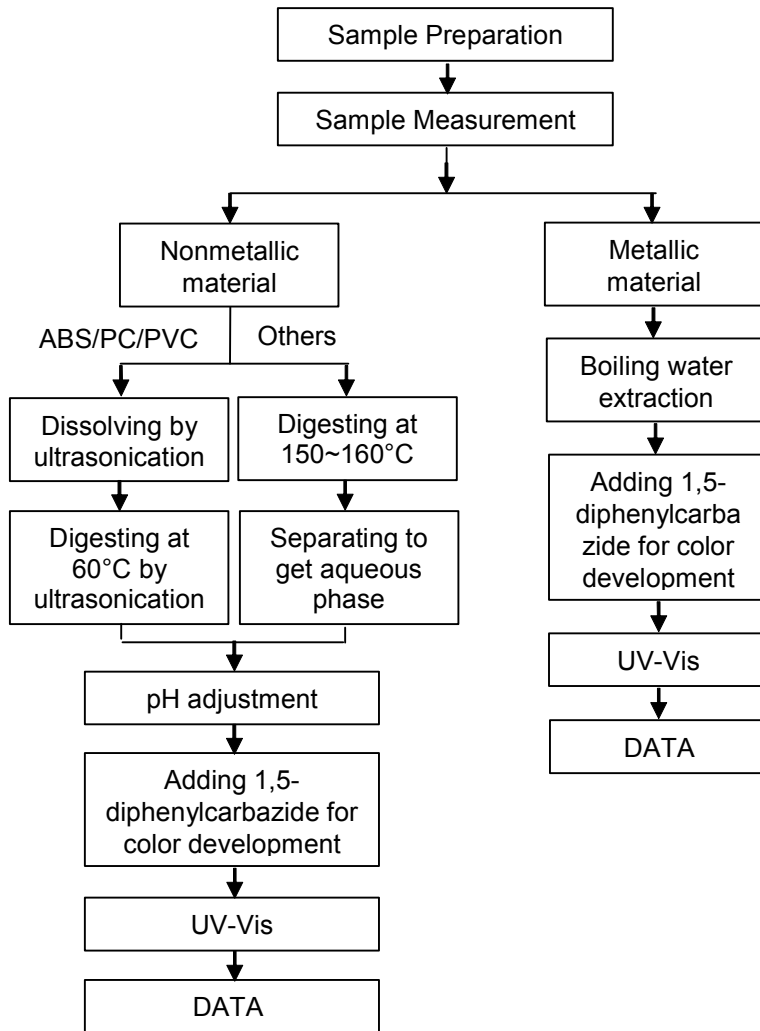


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

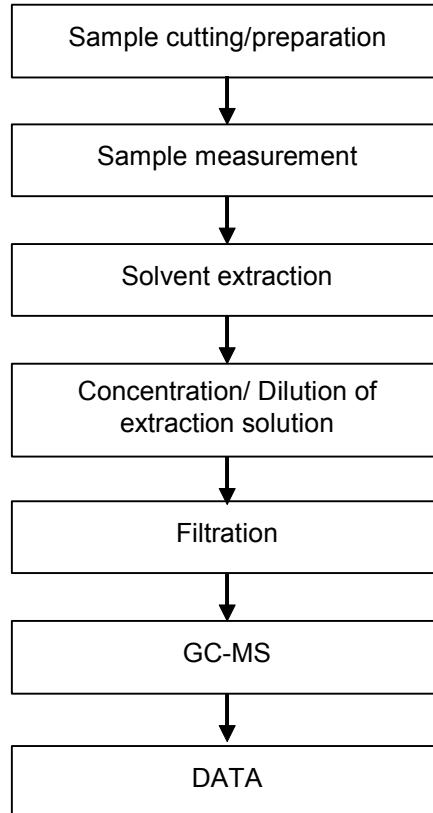


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PBBs/PBDEs Testing Flow Chart

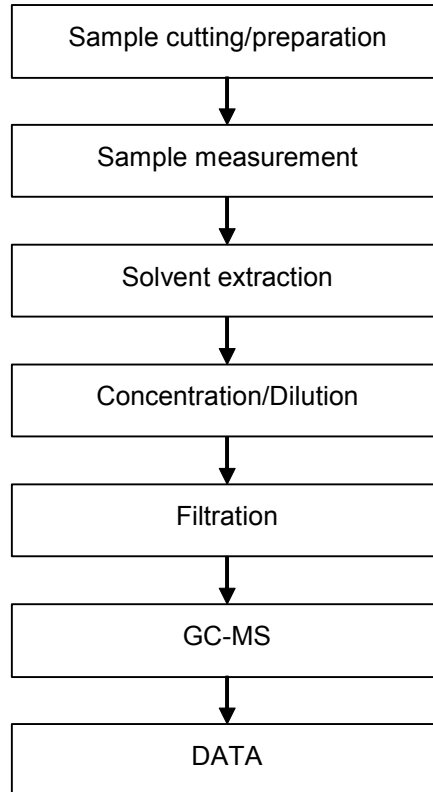


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Phthalates Testing Flow Chart



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Sample photo:



SGS authenticate the photo on original report only

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測試報告

Test Report

號碼(No.): ETR22102404

日期(Date): 17-Jan-2022

頁數(Page): 1 of 9

全詠工業有限公司 (CHENG YANG INDUSTRIAL CO., LTD.)

新北市汐止區福德一路342巷1弄15號 (NO. 15, ALY 1, LN 342, FU TEH FIRST ROAD, SHEATA, NEW TAIPEI CITY)

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

送樣廠商(Sample Submitted By) : 全詠工業有限公司 (CHENG YANG INDUSTRIAL CO., LTD.)

樣品名稱(Sample Name) : Ni(鎳)

收件日(Sample Receiving Date) : 10-Jan-2022

測試期間(Testing Period) : 10-Jan-2022 to 17-Jan-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) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)


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



PIN CODE: 243D888F

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測試報告

Test Report

號碼(No.): ETR22102404

日期(Date): 17-Jan-2022

頁數(Page): 2 of 9

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新北市汐止區福德一路342巷1弄15號 (NO. 15, ALY 1, LN 342, FU TEH FIRST ROAD, SHEATA, NEW TAIPEI CITY)

測試部位敘述 (Test Part Description)

No.1 : 銀色金屬鍍層 (PLATING LAYER OF SILVER COLORED METAL)

No.2 : 銀色金屬(含鍍層) (SILVER COLORED METAL (INCLUDING THE PLATING LAYER))

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	No.2
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	酸洗脫鍍層 · 參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)		mg/kg	2	n.d.	---
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	酸洗脫鍍層 · 參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---
六價鉻 (Hexavalent Chromium) Cr(VI) (CAS No.: 18540-29-9) (#2)	參考IEC 62321-7-1: 2015 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	µg/cm ²	0.1	n.d.	---
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	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.)	µg/m ²	0.5	n.d.	---
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		µg/m ²	0.5	n.d.	---

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測試報告

Test Report

號碼(No.): ETR22102404

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全詠工業有限公司 (CHENG YANG INDUSTRIAL CO., LTD.)

新北市汐止區福德一路342巷1弄15號 (NO. 15, ALY 1, LN 342, FU TEH FIRST ROAD, SHEATA, NEW TAIPEI CITY)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	
				No.1	No.2
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.
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.	
多溴聯苯醚總和 (Sum of PBDEs)	mg/kg	-	---	n.d.	
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.
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)		mg/kg	50	---	n.d.
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.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		mg/kg	50	---	n.d.

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全詠工業有限公司 (CHENG YANG INDUSTRIAL CO., LTD.)

新北市汐止區福德一路342巷1弄15號 (NO. 15, ALY 1, LN 342, FU TEH FIRST ROAD, SHEATA, NEW TAIPEI CITY)

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 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. "---" = Not Conducted (未測試項目)
6. 全氟辛烷磺酸及其鹽類包含 (PFOS and its salts including) :
CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
7. 全氟辛酸及其鹽類包含 (PFOA and its salts including) :
CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
8. (#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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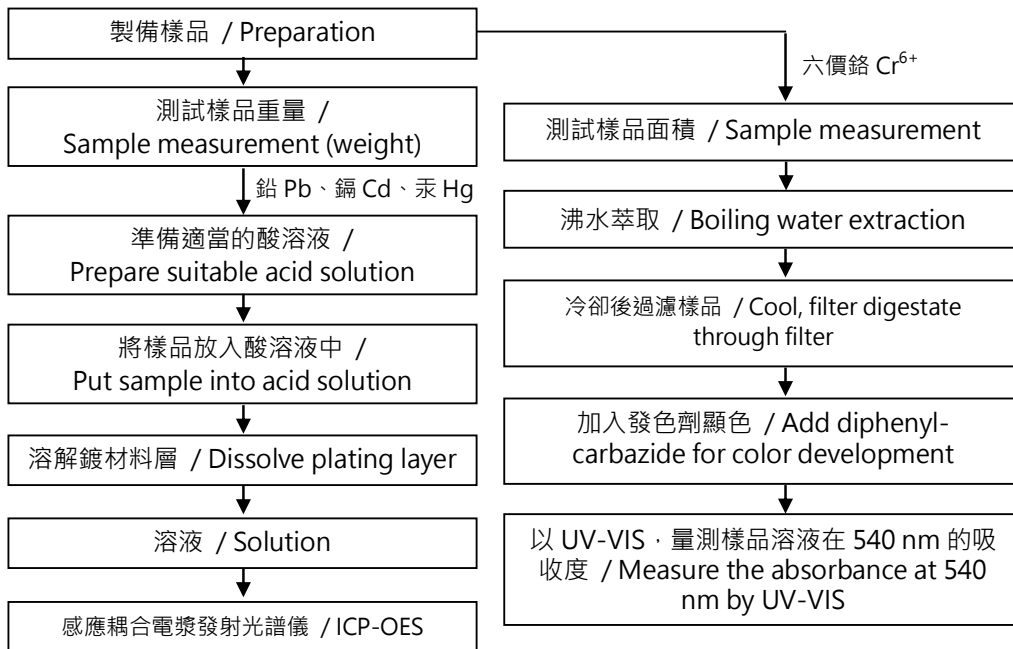
頁數(Page): 5 of 9

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

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)

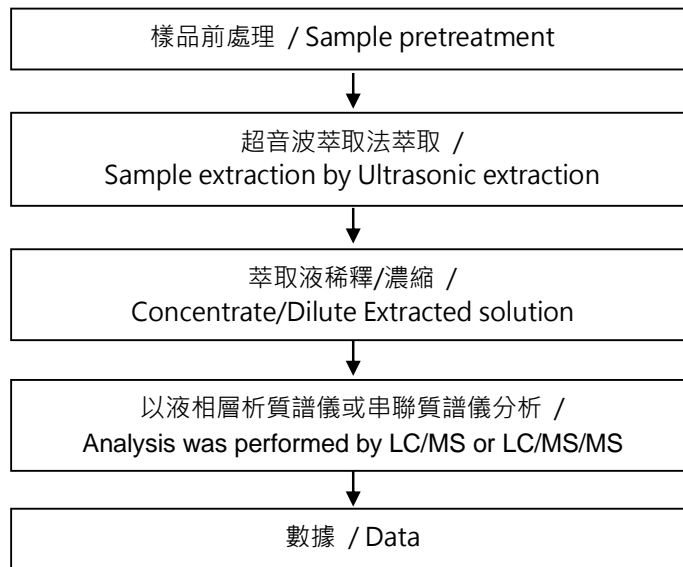


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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS



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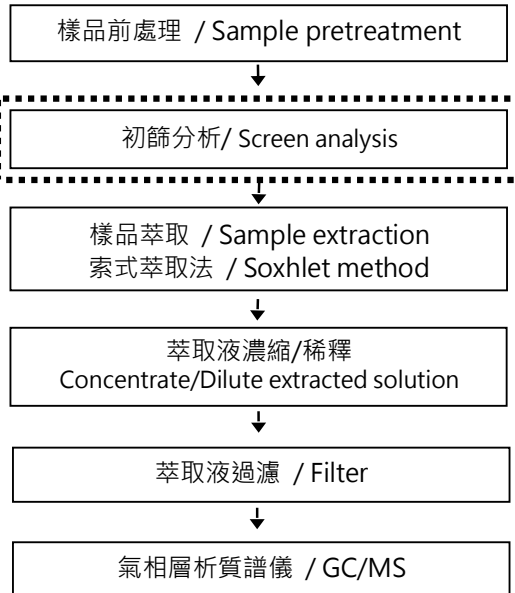
頁數(Page): 7 of 9

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

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 - . - .>



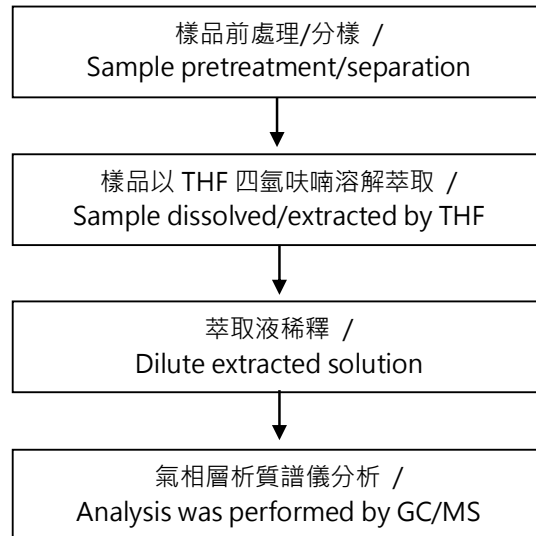
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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* 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.)

ETR22102404 NO.1



ETR22102404 NO.2



** 報告結尾 (End of Report) **

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新北市汐止區福德一路342巷1弄15號 (NO. 15, ALY 1, LN 342, FU TEH FIRST ROAD, SHEATA, NEW TAIPEI CITY)

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

送樣廠商(Sample Submitted By) : 全詠工業有限公司 (CHENG YANG INDUSTRIAL CO., LTD.)

樣品名稱(Sample Name) : 霧錫

收件日(Sample Receiving Date) : 10-Jan-2022

測試期間(Testing Period) : 10-Jan-2022 to 17-Jan-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) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

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



PIN CODE: F7588499

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新北市汐止區福德一路342巷1弄15號 (NO. 15, ALY 1, LN 342, FU TEH FIRST ROAD, SHEATA, NEW TAIPEI CITY)

測試部位敘述 (Test Part Description)

No.1 : 銀色金屬鍍層 (PLATING LAYER OF SILVER COLORED METAL)

No.2 : 銀色金屬(含鍍層) (SILVER COLORED METAL (INCLUDING THE PLATING LAYER))

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	No.2
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	酸洗脫鍍層 · 參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)		mg/kg	2	31.6	---
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	酸洗脫鍍層 · 參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---
六價鉻 (Hexavalent Chromium) Cr(VI) (CAS No.: 18540-29-9) (#2)	參考IEC 62321-7-1: 2015 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	µg/cm ²	0.1	n.d.	---
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	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.)	µg/m ²	0.5	n.d.	---
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		µg/m ²	0.5	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	No.2
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.
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.	
多溴聯苯醚總和 (Sum of PBDEs)	mg/kg	-	---	n.d.	
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.
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)		mg/kg	50	---	n.d.
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.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		mg/kg	50	---	n.d.

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全詠工業有限公司 (CHENG YANG INDUSTRIAL CO., LTD.)

新北市汐止區福德一路342巷1弄15號 (NO. 15, ALY 1, LN 342, FU TEH FIRST ROAD, SHEATA, NEW TAIPEI CITY)

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 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. "---" = Not Conducted (未測試項目)
6. 全氟辛烷磺酸及其鹽類包含 (PFOS and its salts including) :
CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
7. 全氟辛酸及其鹽類包含 (PFOA and its salts including) :
CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
8. (#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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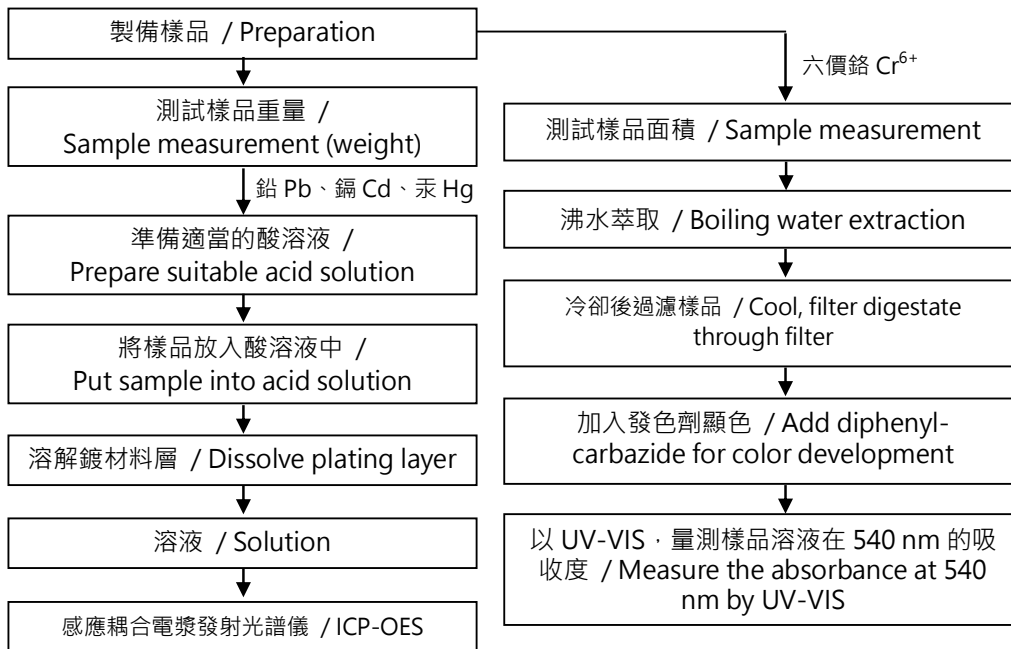
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鍍層重金屬測試流程圖 / Flow Chart of Stripping method for metal analysis

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)

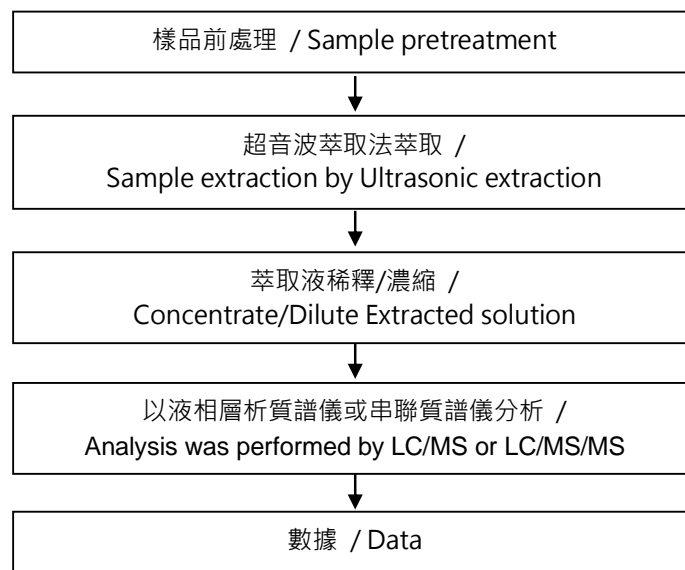


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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS



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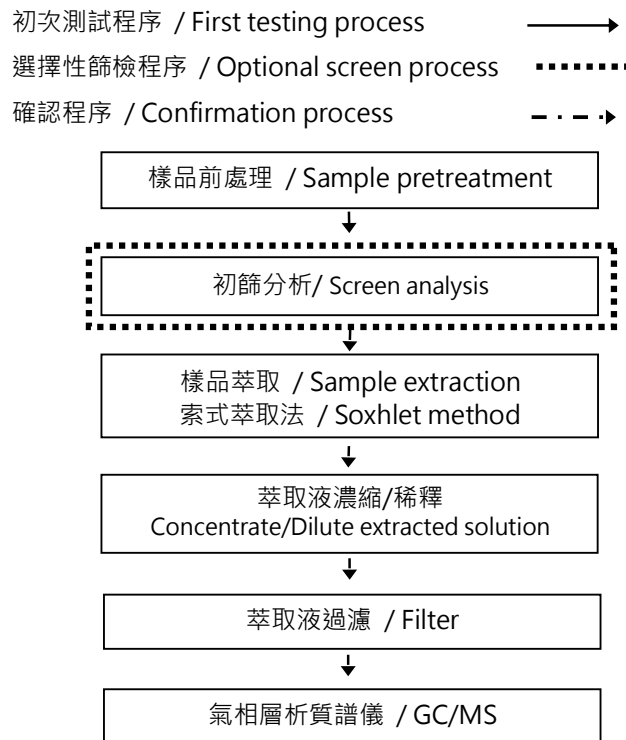
日期(Date): 17-Jan-2022

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



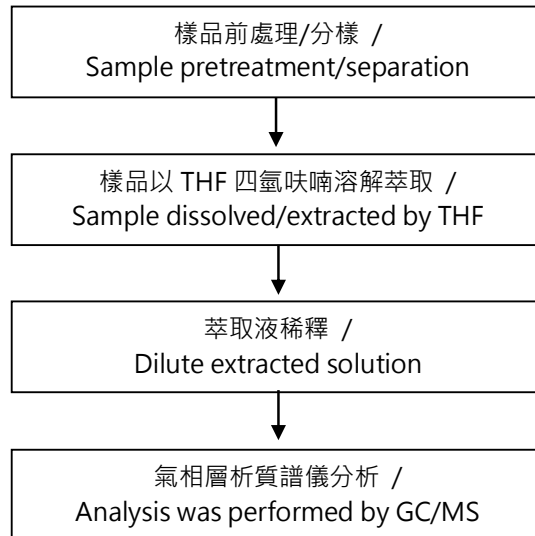
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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* 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.)

ETR22102405 NO.1



ETR22102405 NO.2



** 報告結尾 (End of Report) **

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