

亞 驪 企 業 股 份 有 限 公 司
ARISTOTLE ENTERPRISES

承 認 申 請 書

ROHS COMPLIANCE

客戶名稱: 普羅通信股份有限公司
Customer
廠商料號: RFA-S89-T355-2.5M-R2
Part No.
品名: Antenna
Description
圖號: RFA-S89-T355-2.5M-R2
Drawing No.
客戶料號: 18B-100-0016R
Drawing No.

出廠簽章:

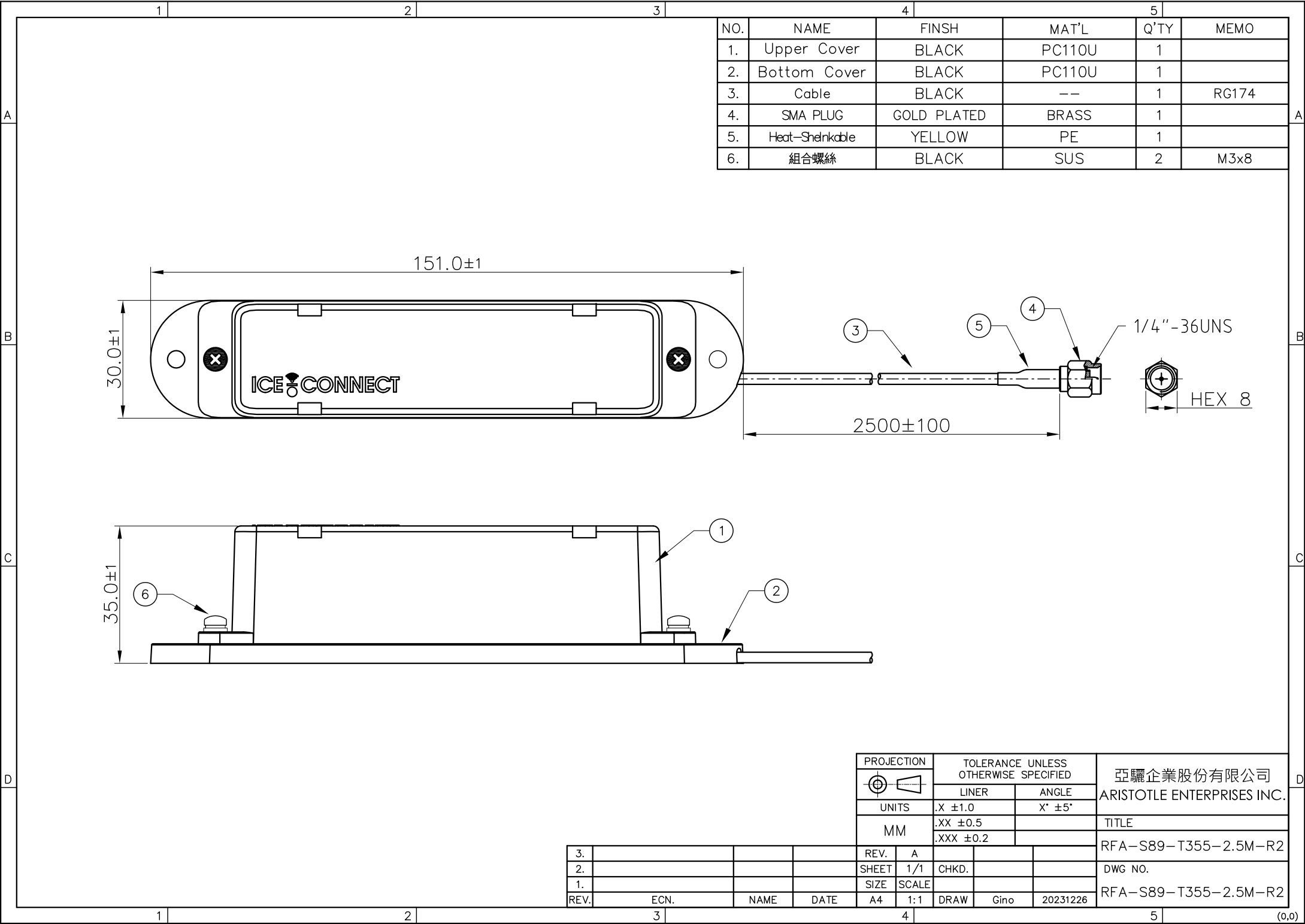
檢 查 TEST BY	核 對 CHECK BY	承 認 APPROVE BY
張鴻隆	張家福	廖煥文

承認簽章:

檢 查 TEST BY	核 對 CHECK BY	承 認 APPROVE BY

地址:新北市中和區莒光路 63 號 8 樓
電話:02-2225-8209
傳真:02-2225-7523

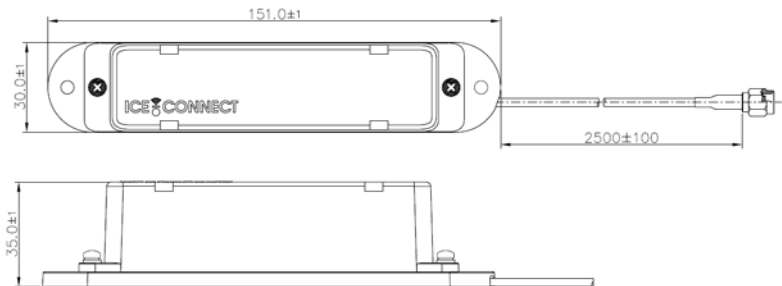
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RFA-S89-T355-2.5M-R2

Specifications

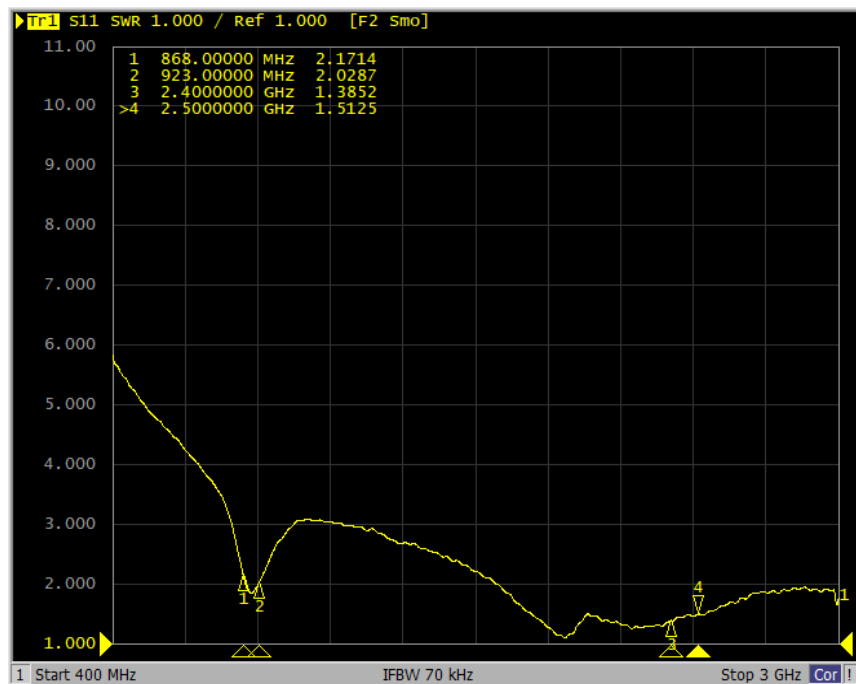
Frequency	868 – 923 MHz	2400-2500MHz
Peak gain	2.15 dBi	2.1 dBi
Average gain	-3.21 dBi	-5.28 dBi
Efficiency	47.84 %	29.79 %
VSWR	3.0 : 1 Max	2.0 : 1 Max
Connector	SMA Male	
Cable	RG174	
Cable Length	2.5M	



Environment & Mechanical Characteristics

Temperature	- 40°C to +85°C
Humidity	95% @ 25°C

VSWR

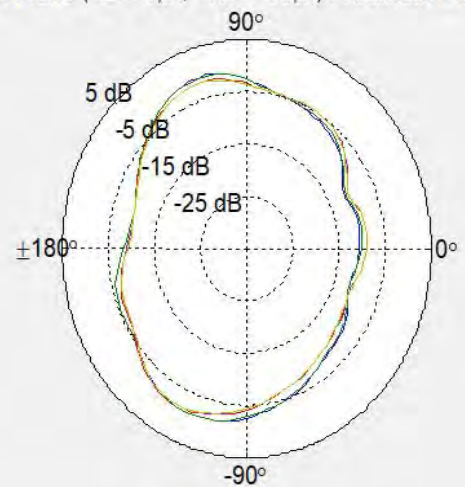
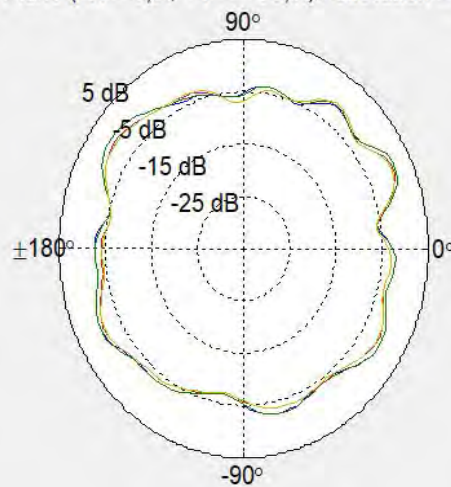
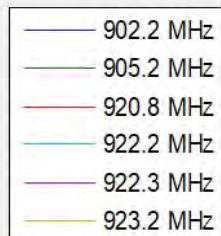


Radiation Pattern

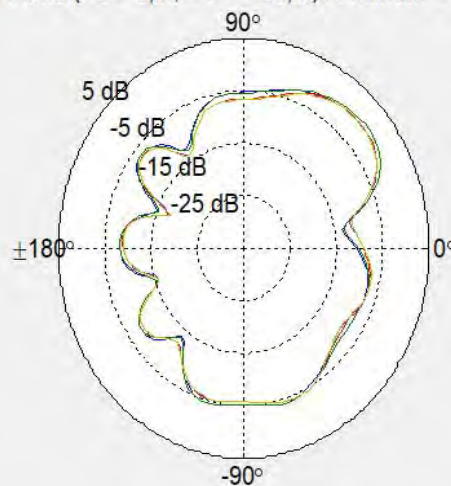
SUB6G-L2-3 = 894 - 960 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°

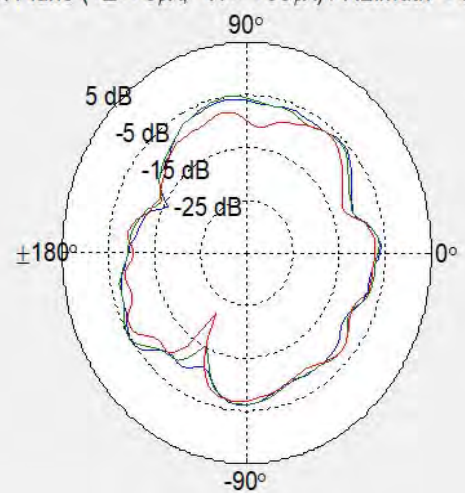
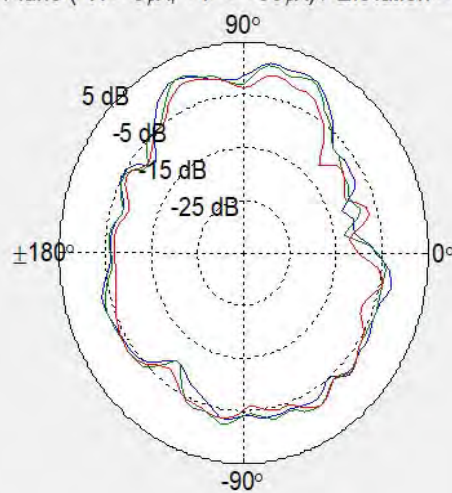
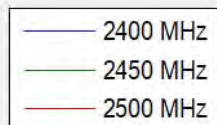


Radiation Pattern

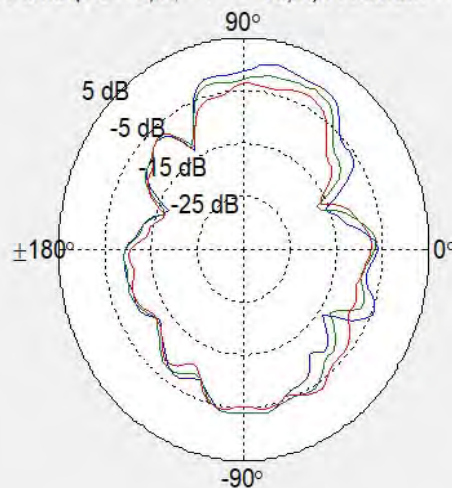
2G Band = 2400 - 2500 MHz % 2G BAND

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X






宮前五金股份有限公司

桃園市龜山區頂湖一街24號
No.24, Dinghu 1st St., Guishan Dist., Taoyuan City 33378, Taiwan (R.O.C.)
TEL:(03)328-3068 FAX:(03)328-2515

檢驗報告表

2022年12月30日

廠商名稱		立字盛工業股份有限公司	
試材名稱		FREE CUTTING BRASS ROD	
合金編號		JIS H3250 C3604 BD (ROHS)	
項目	數據	標準值	實測值
化	Cu	57.0 - 61.0	58.11
學	Pb	1.8 - 3.7	3.52
成	Fe	< 0.5	0.37
份	Sn+Fe	< 1.0	0.81
%	Zn	REMAINDER	REMAINDER
ROHS	Cd	<75ppm	70ppm
備註			

本公司代理進口工程塑膠特性表

商 品 名			鐵 氟 龍	尼 龍	乙 烯 銅	塑 膠 鋼	聚 乙 烯	聚 丙 烯		聚 碳 酸 酯	尼 龍
學 名			4F	MC	UHMW PE	POM	PE	PP	ABS	PC	6N
性 質	單 位	ASTM 試驗法	鐵 氟 龍	MC 尼 龍		塑 膠 鋼	聚 乙 烯	聚 丙 烯	ABS	聚 碳 酸 酯	6.尼 龍
比 重	gr/cm ²	D-792	2.10-2.30	1.15-1.17	0.942-0.963	1.41	0.94-0.97	0.90-0.91	>1.02	1.20	1.12-1.15
抗 拉 強 度	kg/cm ²	D-638	280-352	770-980	400-470	620	220-390	300-390	400	600	730-830
伸 長 率	%	D-638	200-400	10-60	450	>12	15-700	200-700	3	115	25-320
抗拉彈性係數	kg/cm ²	D-638	0.41 X 10 ⁴	2.45-3.15 X 10 ⁴	7.5-10.5	2.28 X 10 ⁴	0.42-1.10 X 10 ⁴	1.35 X 10	2.28 X 10 ⁴	0.22 X 10 ⁴	1.05-2.66 X 10 ⁴
彎 曲 強 度	kg/cm ²	D-790	—	980-1120	200	910	70	492	600	950	560-1130
彎曲彈性係數	kg/cm ²	D-790		4.0 X 10 ²	—	2.6 X 10 ⁴	0.6 X 10 ⁴	1.1-1.4 X 10 ⁴	2.1 X 10 ⁴	2.5 X 10 ⁴	2.7 X 10 ⁴
壓 縮 強 度	kg/cm ²	D-695	120	980-105	330	1100	>225	474	>420	770	506-914
壓縮彈性係數	kg/cm ²	D-695	0.50 X 10 ⁴	—	—	0.47 X 10 ⁴	—	1.34 X 10 ⁴	>0.59 X 10 ⁴	0.24 X 10 ⁴	2.60 X 10 ⁴
硬 度	ROCK well	D-785	鐵 氟 D55-55	R-112-120	R 40-50	M 80	M 60-70	M 80-110	M 100	M 75	R 113-118
衝 擊 強 度 (有V缺口)	kg/cm	D-265	16.4	2.8-3.8	不破壞	6.5	8.2-10.9	0.25	33.0	2.75	3.9-7.9
摩 擦 係 數 1kgcs-17	mg/1000 回	D-1044	—	<4	0.03 0.08	14	70	23	770	280	>7
融 點	°C		317-327	—	—	165	136	—	—	—	—
熱變形溫度 4.6kg/cm ²	°C	D-648	260	205-219	135	158	85	96-113	98	141	148
絕緣破壞強度	Kv/mm		45	20	50	18	50	33	—	—	20
熱 傳 導 率 C/cm	10 ⁻⁴ cal /sec/cm ²	C-117	5.9	5.5	9	5.5	11.0-12.4	2.8	5.1	4.6	5.8
熱膨脹係數	10 ⁻⁵ cm/cm°C	D-696	9.9	9.0	12	8.5	11.0-13.0	5.8-10.2	8.3	7.0	7.2
誘電率10 ⁶ Hz		D-150	<2.1	3.7	2.2	3.9	2.5	2.2-2.6	3.0	2.9	4.0-4.7
誘電體力率 10 ⁶ Hz		D-150	<0.0002	0.020	2 3	0.007	>0.0005	>0.0005	0.0005	0.007	0.040-0.130
體積抵抗率	Ω-cm	D-257	>10 ¹⁸	10 ¹²	10 ¹⁸	10 ¹⁷	>10 ¹⁶	>10 ¹⁶	2 X 10 ¹⁶	10 ¹⁶	10 ¹²
耐 電 弧 性	Sec	D-495	>300	—	—	240	—	>185	>50	120	(絕乾) 135
吸水率24Hrs	%	D-570	<0.01	1.0-1.5	<0.01	0.22	<0.01	0.03	0.03	0.24	1.5-2.0
太陽光線影響			不 變	大體不變	不 變	大體不變	黑以外僅變	黑以外僅變	長期變化	長期變化	長期變化
弱 酸 影 響	耐 性	D-543	耐性非常強	耐性強	耐性很強	強	耐性非常強	非常強	非常強	耐性很強	耐性強
強 酸 影 響	"	D-543	"	—	"	—	強	稍強	稍強	稍強	—
弱 鹼 影 響	"	D-543	"	非常強	"	強	很強	非常強	非常強	很強	非常強
強 鹼 影 響	"	D-543	"	"	"	強	非常強	"	"	—	"
有機溶劑影響	"	D-543	"	強	"	非常強	強	強	—	稍強	強

規格：(一)圓棒：直徑：5mm~250mm

長度：1000mm、500mm、1200mm

(二)平板：1M x 2M、4尺 x 8尺、1M x 1M、500 x 1M

(三)空心管：鐵氟龍管、MC尼龍管、N6、N12尼龍管

(四)油封：迫緊 ORING、PARKING

另備各種材質尺寸多種歡迎洽詢

UV Stabilized PC WONDERLITE® PC-110U

產品敘述: UV Stabilized

物性	ISO 測試方法	測試條件	單位	PC-110U
熔融指數	1133	300°C × 1.2KG	ml/10 min	10
比重	1183	23 °C	g/cm ³	1.2
拉伸強度	527	50 mm/min, yield	MPa	65
		50 mm/min, break	MPa	75
延伸率	527	50 mm/min	%	120
彎曲強度	178	2 mm/min	MPa	90
彎曲彈性模數		2 mm/min	GPa	2.4
IZOD 衝擊強度	180/1A	23°C, Notched, 1/8"	KJ/m ²	75
		-30°C, Notched, 1/8"	KJ/m ²	-
Charpy 衝擊強度	179	23 °C Notched	KJ/m ²	75
		-30 °C Notched	KJ/m ²	-
維氏軟化溫度	306	1 Kg, 50 °C/hr	°C	148
		5 Kg, 50 °C/hr	°C	143
熱變形溫度	75/A	1.8 MPa Unannealed	°C	127
		1.8 MPa Annealed	°C	142
線膨脹係數	11359	-	-	6.0~8.0x10 ⁻⁵
燃燒等級	-	UL-94	-	1.5mm V-2
成型收縮率	294-4	-	%	0.5~0.7
標記	1043	-	-	>PC<

August 10, 2020

Notes : These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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有嘉有限公司

EVA:(Ethylene -Vinyl -Acetate) (乙烯醋酸乙烯酯)成分表：

EVA：30% PE：35% 架橋劑：3%

CaCo₃：25% 發泡劑：7%

本公司所生產之 EVA 不含偶氮染料(AZODYES)

EVA 物性表：

EVA：30 ~35 度

密度：0.588g/cm³

延伸率：280%

抗拉強度：5kg/cm³

吸水率：0.005 以下 g/cm³

壓縮變形率：4.5%以下

特性：

耐溫：65 度開始軟化，90 度將開始熔縮

特性功用：

1. 耐甲苯，酸鹼，易裁加工，彈性佳
2. 常用於運動器材，護具(緩衝材料)，膠帶，電子墊片
3. 車燈泡緊

壓縮變形 2%(3kg 壓 1H，恢復 60%)如加膠：性越好



Double Coated Tissue Tapes

9888T

Temporary Technical Data

May, 2002

Product Description:

Product 9888T double coated tissue tape features a tissue carrier for dimensional stability and improved handling with ease of die cutting and laminating.

Construction:

Product Number	Adhesive ¹ / Color/ Tape Thickness	Carrier	Liner Color, Type, Print	Liner Caliper
9888T	Translucent, 0.0059" (0.150mm)	Tissue translucent in color	White, PE ² polycoated paper, 3M logo print in red color	0.0059" (0.150mm)

Note 1: Pressure Sensitive Acrylic Adhesive provides excellent initial tack and adhesion to a wide variety surface including many low surface energy plastics.

Note 2: PE (Polyethylene)

Feature

1. 9888T feature a medium-soft acrylic pressure sensitive adhesive system. The key characteristics of this adhesive include a combination of high initial adhesion and good shear and holding power to a wide variety of materials, including many plastics.
2. 9888T feature controlled adhesive flow into open cell foam and controlled caliper for bond to application surface.
3. For foam laminating, it provides excellent foam stability to reduce stretching and allows to more precise alignment during application.

Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Product Number	9888T
Adhesion to stainless steel ASTM D3330 –180 degree, 2 mil Al foil at 22°C, 50%RH 15 minute RT 72 Hour RT	g/25.4m 2940 3180
Adhesion to ABS ASTM D3330 –180 degree, 2 mil Al foil at 22°C, 50%RH 15 minute RT 72 Hour RT	2210 2440
Adhesion to PC ASTM D3330 –180 degree, 2 mil Al foil at 22°C, 50%RH 15 minute RT 72 Hour RT	2560 2670
Adhesion to PP ASTM D3330 –180 degree, 2 mil Al foil at 22°C, 50%RH 20 minute RT 72 Hour RT	1900 2190

Shear strength ASTM D3654 modified 0.5 inch ² sample size at 22°C 1000 grams	10000 mins
Relative High temperature Operating Ranges	
Long Term (days, weeks) Short Term (minutes, hours)	80°C 120°C
Shelf Life 12 months from date of receipt by customer when stored in original carton at 22 °C and 50% relative humidity	

Application Techniques:

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improves bond strength.

To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane. Note: Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

Ideal tape application temperature range is 70° F to 100° F (21° C to 38° C). Initial tape application to surfaces at temperatures below 50° F (10° C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

General Information

Tape 9888T has a tissue carrier, which can add dimensional stability to foams and other substrates. The carrier also provides easier handling during slitting and die-cutting.

Application Ideas

- 9888T tapes are specially formulated for many indoor high performance purpose mounting and joining applications, including bonding to Polyethylene, Polypropylene and many other Plastics, where moderate temperature and shear performance are required.
- 9888T tapes are formulated for more demanding indoor and moderate outdoor high performance mounting and joining application.
- Application ideas for these tapes include
 - Lens attachment for mobile phone
 - Wire and Cable Clips
 - Appliance, Case for display and Electronics Equipment Trim
 - Interior under sheet for car
 - Paper splicing
 - Foam, Gasket attachment in mobile phones and pagers.
 - Plastics Hooks, Racks and Dispensers
 - Sign, Nameplates and Plaques
 - Appliques

Important Notice

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NAN YA PLASTICS CORPORATION
ELECTRONIC MATERIALS DIVISION.
COPPER CLAD LAMINATE DEPARTMENT

**Glass cloth base epoxy resin
flame retardant copper clad laminate**

NO. 201. TUNG HWA N. ROAD,
TAIPEI, TAIWAN.

NP-140TL

■ FEATURES

- Multi-functional epoxy renders the material outstanding heat resistance, better dimensional stability, and through-hole reliability that benefit the performance of high layer count multilayer boards.
- HTE copper foil applied to prevent corner cracking.
- High luminance of epoxy contrast with copper for laser type A.O.I.
- UV solder mask may be applied simultaneously in order to increase yields.
- IPC-4101B specification is applicable.

■ PERFORMANCE LIST

Characteristics	Unit	Conditioning	Typical Values	SPEC	Test Method
Volume resistivity	MΩ-cm	C-96/35/90	5.0×10^9	$10^6 \uparrow$	2.5.17
Surface resistivity	MΩ	C-96/35/90	5.0×10^7	$10^4 \uparrow$	2.5.17
Permittivity 1 MHZ	-	C-24/23/50	4.2-4.4	5.4 ↓	2.5.5.9
Permittivity 1 GHZ	-	C-24/23/50	3.8-4.0	-	2.5.5.9
Loss Tangent 1 MHZ	-	C-24/23/50	0.015-0.020	0.035 ↓	2.5.5.9
Loss Tangent 1 GHZ	-	C-24/23/50	0.012-0.014	-	2.5.5.9
Arc resistance	SEC	D-48/50+D-0.5/23	120 ↑	60 ↑	2.5.1
Dielectric breakdown	KV	D-48/50	60 ↑	40 ↑	2.5.6
Moisture absorption	%	D-24/23	0.20-0.30	0.35 ↓	2.6.2.1
Flammability	-	C-24/23/50+E-24/125	94V0	94V0	UL94
Peel strength 1 oz	lb/in	288 x10" solder floating	10-14	6 ↑	2.4.8
Thermal stress	SEC	288 solder dipping	90 ↑	10 ↑	2.4.13.1
Glass transition temp		DSC	140 ± 5	N/A	2.4.25
Dimensional stability X-Y axis	%	E 4/105	0.01-0.03	0.05 ↓	2.4.39
Coefficient of thermal expansion					
Z-axis before Tg	ppm/	TMA	50-70	N/A	2.4.24
Z-axis after Tg	ppm/	TMA	250-350		

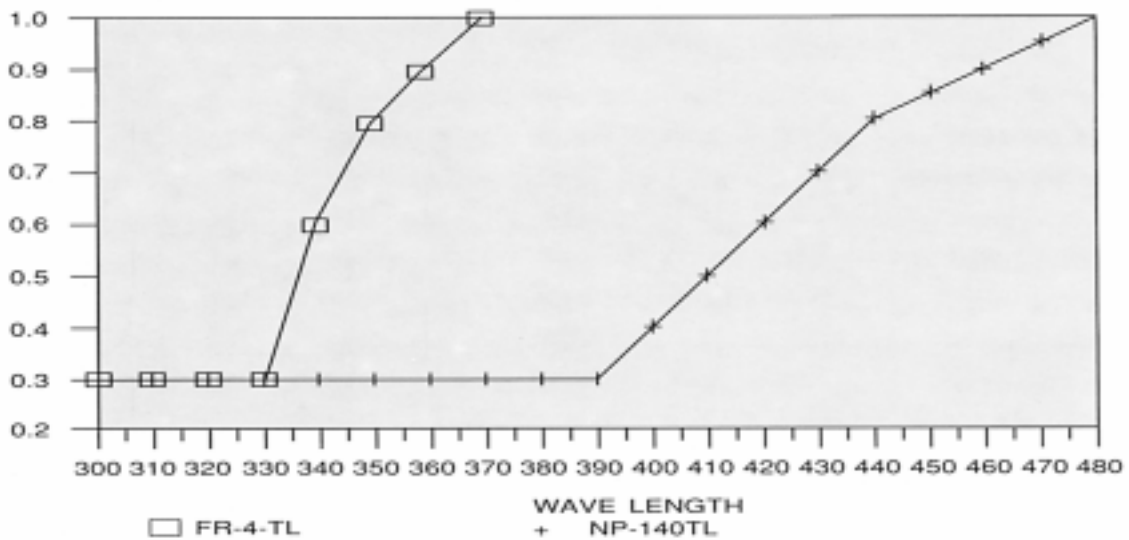
NOTE:

The average value in the table refers to samples of .020" 1/1.

Test method per IPC-TM-650

Data shown are nominal values for reference only.

■ UV TRANSMISSION CURVE OF 0.2mm CCL



■ PRODUCT SIZE & THICKNESS

THICKNESS INCH(mm)	COPPER CLADDING OZ (μm)	SIZE		THICKNESS TOLERANCE
		INCH	mm	
0.004 (0.1)	0.5 (17)	48.8 x 36.6	1240 x 0930	CLASS C/M
to	1.0 (35)	48.8 x 40.5	1240 x 1030	
0.047(1.2)	2.0 (70)	48.8 x 42.5	1240 x 1080	

■ Keeping the core and prepreg in the same grain direction is crucial to ensure the flatness of multilayer boards.

Grain direction is shown on the Certificate of Conformance

■ CERTIFICATION UL

• UL File No. : E98983

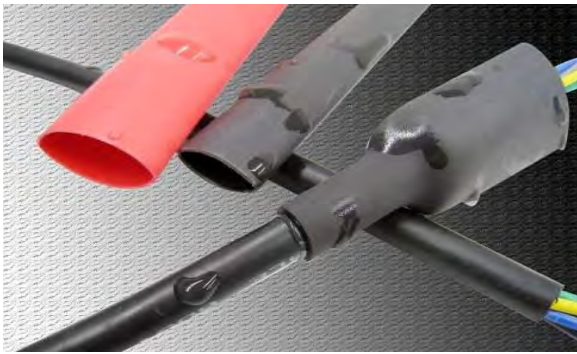
■ **CONSTRUCTION:**

THICKNESS		CONSTRUCTION
mm	mil	
0.08	3	2112 1 ply
0.10	4	1080 2 plies
0.11	4	2116 1 ply
0.13	5	1080 2 plies
0.13sp	5	2116 1 ply
0.15	6	1506 1 ply
0.16	6	2112 2 plies
0.21	8	7628 1 ply
0.26	10	2116 2 plies
0.30	12	2116 3 plies
0.30sp	12	1506 2 plies
0.35	14	7628 2 plies
0.38	15	7628 2 plies

THICKNESS		CONSTRUCTION
mm	mil	
0.45	18	7628 x 2 + 1080 x 1
0.46	18	7667 2 plies
0.50	20	7628 3 plies
0.53	21	7628 3 plies
0.60	24	7628 3 plies
0.77	31	7628 4 plies
0.8	32	7628 4 plies
0.9	36	7628 5 plies
1.0	39	7628 5 plies
1.1	43	7628 6 plies
1.2	47	7628 6 plies

*1.2,1.1,1.0,0.9,0.77 mm, THICKNESS INCLUDES CLADDING. ALL OTHERS EXCLUDE CLADDING.

W1SB2X、W1SB3X、W1SB4X 環保型含膠熱收縮套管系列 (雙壁管 SBRS)
W1SB2X、W1SB3X、W1SB4X Environment-Friendly Dual Wall Heat Shrink Tube Series



環保型含膠熱收縮套管 (雙壁管 SBRS)

由交聯聚烯烴和環保熱熔膠複合加工而成、產品具有柔軟、密封、環保(ROHS)、外層自熄等優點，廣泛應用於電子設備的接線防水、防漏氣、金屬管線的保護，電子線的修護，抽水馬達的接線防水。

Product Introduction :

The product is made of cross-linked polyethylene material and environment friendly hot-melt Adhesive. It has the excellence of soft, airproof, fireproof etc. It is universally applied to provide water proof, airproof, anti-corrosion protection to metal wire, pump, repairing electrical wire, cable, and contacting wire.

特點：

高擴張倍率可以提供良好的連接的密封性，可用於戶內的電子配件，可以不用移開連接器，就可以很方便地修補大部分的電纜損壞

Feature :

The high expansion percentage may provide the good connection the leak-proof quality, may use in the indoors the electronic fitting, may not need to put aside the coupling, may patch the majority of cable damage very conveniently

工作溫度範圍：

- 1.適用範圍：-45℃ ~ 125℃
- 2.開始收縮溫度：70℃、完全收縮溫度：125℃，縱向收縮率 $\leq \pm 8\%$

Temperature Range :

1. Operating Temperature：-45℃~125℃
2. Shrink Temperature：Start at 70℃、full recovery at 125℃, Longitudinal Shrink Ratio $\leq \pm 8\%$

規格：

Φ 1.6 ~ Φ 125 亦可訂製特殊規格。

Specification :

The Available sizes from Φ 1.6 to Φ 125mm, available to produce upon special requirement.

收縮工具：

用烘箱和熱風槍加熱即可收縮。

Heating Tools:

Using oven or heating gun to let it shrink。

顏色：

黑色(B).紅色(R).為基本顏色.其他顏色可訂做.

Standard colors :

Black, Red Other color available upon request。

收縮比(Shrink ratio) : 2 : 1、3 : 1、4 : 1

環保標準:

環保性能符合歐盟 RoHs 等環保標準.

Environment Friendly Standard :

Meet RoHS standard.

認證(Certificate/ Approval):UL: E203950

性能特性

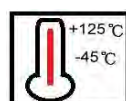
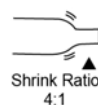
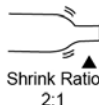
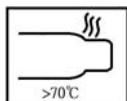
Technical Data

性能 Property	測試方法 Test Method	性能指標 Standard
拉伸強度 (MPa) Tensile strength	ASTM D2671	≥ 12
斷裂伸長率 (%) Elongation	ASTM D2671	≥ 300
熱老化後拉伸強度(MPa) Tensile strength after aging	UL224 158 °C × 168hr	≥ 7.3
熱老化後斷裂伸長率(%) Elongation after aging	UL224 158 °C × 168hr	≥ 200
擊穿強度 (kv / mm) Dielectric strength	IEC 243	≥ 15
體積電阻率 ($\Omega \cdot \text{cm}$) Volume resistivity	IEC 93	$\geq 1 \times 10^{14}$

熱溶膠特性

Hot Melting Adhesive Property

性能 Property	測試方法 Test Method	性能指標 Standard
吸水率 Water absorption	ASTM-D570	$< 0.2\%$
軟化點 Softening point	ASTM-E8	95 °C
剝離強度 (PE) Peel strength	ASTM-D1000	120N/25mm
剝離強度 (AL) Peel strength	ASTM-D1000	80N/25mm



W1SB3X 環保型含膠熱收縮套管規格 SBRS-(3X)

W1SB3X Environment Friendly Dual Wall Heat Shrink Tube Specification

規格(size)		收縮前最小內徑 As supplied Min I.D.(mm)	自由收縮後 After recovery(mm)			標準包裝 米/卷 或 米/段 Package M/Spool or M/pcs
Inch	(mm)		最大內徑 Max I.D.	總壁厚 Total W.T.	膠層壁厚 Adhesive thickness	
3/32	Φ 2.4	≥ 2.4	≤ 0.80	0.80±0.30	0.40±0.20	200
1/8	Φ 3.2	≥ 3.2	≤ 1.00	0.90±0.30	0.40±0.20	200
3/16	Φ 4.8	≥ 4.8	≤ 1.60	1.05±0.30	0.40±0.20	100
1/4	Φ 6.4	≥ 6.4	≤ 2.20	1.25±0.30	0.45±0.20	100
5/16	Φ 7.9	≥ 7.9	≤ 2.70	1.35±0.30	0.45±0.20	100
3/8	Φ 9.5	≥ 9.5	≤ 3.20	1.45±0.30	0.50±0.20	50
1/2	Φ 12.7	≥ 12.7	≤ 4.20	1.65±0.30	0.50±0.20	1.22
5/8	Φ 15.0	≥ 15.0	≤ 5.20	1.80±0.30	0.55±0.30	1.22
3/4	Φ 19.1	≥ 19.1	≤ 6.30	1.95±0.30	0.60±0.30	1.22
1	Φ 25.4	≥ 25.4	≤ 8.50	2.00±0.40	0.60±0.30	1.22
1-1/4	Φ 30.0	≥ 30.0	≤ 10.20	2.15±0.40	0.65±0.30	1.22
1-1/2	Φ 39.0	≥ 39.0	≤ 13.50	2.45±0.40	0.75±0.30	1.22
2	Φ 50.0	≥ 50.0	≤ 17.00	2.75±0.40	0.80±0.30	1.22
5/2	Φ 64.0	≥ 64.0	≤ 21.00	3.05±0.40	1.05±0.30	1.22
3	Φ 75.0	≥ 75.0	≤ 25.00	3.05±0.50	1.05±0.40	1.22
7/2	Φ 90.0	≥ 90.0	≤ 30.00	3.10±0.50	1.05±0.40	1.22
4	Φ 100.0	≥ 100.0	≤ 34.00	3.10±0.50	1.10±0.40	1.22
5	Φ 125.0	≥ 125.0	≤ 42.00	3.15±0.50	1.10±0.40	1.22

W1SB4X 環保型含膠熱收縮套管規格 SBRS-(4X)

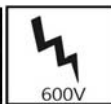
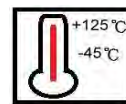
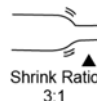
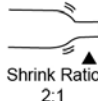
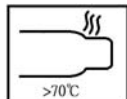
W1SB4X Environment Friendly Dual Wall Heat Shrink Tube Specification

規格		收縮前最小內徑 As supplied Min I.D.(mm)	自由收縮後 After recovery(mm)			標準包裝 米/卷 或 米/段 Package M/Spool or M/pcs
公制 mm	英制 Inch		最大內徑 Max I.D.	總壁厚 Total W.T.	膠層壁厚 Adhesive thickness	
Φ 4.0	-	4.0	1.0	1.05±0.30	0.50±0.30	200
Φ 6.0	-	6.0	1.5	1.15±0.30	0.50±0.30	100
Φ 8.0	-	8.0	2.0	1.55±0.30	0.60±0.30	50
Φ 12.0	-	12.0	3.0	1.75±0.30	0.60±0.30	1.22
Φ 16.0	-	16.0	4.0	2.00±0.30	0.70±0.30	1.22
Φ 20.0	-	20.0	5.0	2.30±0.30	0.70±0.30	1.22
Φ 24.0	-	24.0	6.0	2.60±0.40	0.75±0.30	1.22
Φ 32.0	-	32.0	8.0	3.00±0.50	0.90±0.30	1.22
Φ 52.0	-	52.0	13.0	3.35±0.50	0.95±0.30	1.22

W1SB2X 環保型含膠熱收縮套管規格 SBRS-(2X)

W1SB2X Environment Friendly Dual Wall Heat Shrink Tube Specification

规格		收縮前最小內徑 As supplied Min I.D. (mm)	自由收縮後 After recovery(mm)			標準包裝 米/卷 或 米/段 Package M/Spool or M/pcs
公制 mm	英制 Inch		最大內徑 Max I.D.	平均總壁厚 Total W.T.	平均膠層壁厚 Average W.T..	
Φ1.6	1/16	≥1.6	≤0.8	0.60±0.30	0.30±0.20	200
Φ2.4	3/32	≥2.4	≤1.2	0.70±0.30	0.35±0.20	200
Φ3.2	1/8	≥3.2	≤1.6	0.70±0.30	0.35±0.20	200
Φ4.8	3/16	≥4.8	≤2.4	0.80±0.30	0.40±0.20	100
Φ6.4	1/4	≥6.4	≤3.2	0.80±0.30	0.40±0.20	100
Φ7.9	5/16	≥7.9	≤3.9	0.90±0.30	0.45±0.20	100M/卷 or 1.22M/支
Φ9.5	3/8	≥9.5	≤4.8	0.90±0.30	0.45±0.20	50M/卷 or 1.22M/支
Φ12.7	1/2	≥12.7	≤6.4	0.95±0.40	0.45±0.20	25M/卷 or 1.22M/支
Φ15.9	5/8	≥15.9	≤7.9	0.95±0.40	0.45±0.20	25M/卷 or 1.22M/支
Φ19.1	3/4	≥19.1	≤9.5	1.00±0.40	0.45±0.20	25M/卷 or 1.22M/支
Φ25.4	1	≥25.4	≤12.7	1.10±0.40	0.50±0.20	25M/卷 or 1.22M/支
Φ31.8	1-1/4	≥31.8	≤15.0	1.15±0.40	0.50±0.20	25M/卷 or 1.22M/支
Φ38.1	1-1/2	≥38.1	≤19.0	1.25±0.40	0.50±0.20	25M/卷 or 1.22M/支
Φ44.5	1-3/4	≥44.5	≤22.0	1.35±0.40	0.55±0.20	1.22
Φ50.8	2	≥50.8	≤25.4	1.50±0.40	0.60±0.20	1.22





Nice Fountain Industrial Co., Ltd

NF-FOR-0502-007-F/0

DOCU. No

-

Specification Sheet

Issue Date

2024/05/17

Item

RG-174/U 64#

Part No

6Z004901035

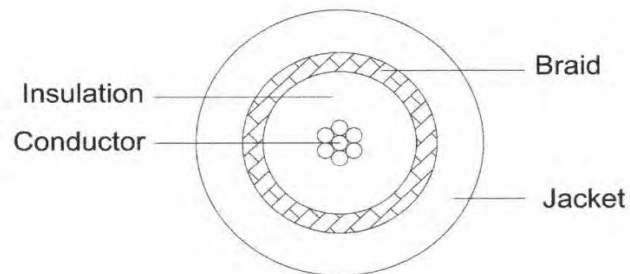
Version

A/0

Spec.

7/0.16ACU-1.5XLPE-16*4/0.1TCU16-2.7PVC

Drawing



Construction

Item		Unit	COAXIAL CABLE
Conductor	Composition	No.	7
	Diameter	mm	0.16±0.08
	Material	/	Bare Copper
Insulation	Diameter	mm	1.5±0.1
	Material	/	XLPE
	Color	/	Nature
Shield	Braid	Composition	/
		Diameter	mm
		Material	/
		Coverage	%
Jacket	Diameter		mm
	Material		/
	Color		/
Operating Temperature		°C	0-60
Bend Radius : Installation		mm	6.4

Contact Ink Print(WHT) : NFC-RG174/U-MIL-C-17

Electrical Characteristic

Item	Unit	Standard				
Conductor resistance	Ω/km	122.4 (MAX.)				
Normal Impedance	Ω	50±3				
Normal Capacitance	pF/m	100±3				
Spark Voltage	V/DC	1500				
Withstand Voltage	V/DC	1000				
Attenuation±15%	MHz	10	50	100	200	400
	dB/10M	0.85	2.01	2.85	4.06	6.1
	MHz	700	900	1000	1575	1800
	dB/10M	8.4	9.5	10.0	13.23	14.3
	MHz	2000	2500	3000	4000	5800
	dB/10M	15.3	17.27	20.2	23.5	30.2

Approved

Andrew Liu

Checked

Andrew Liu

Drawing

Weng Chia Chi



INSPECTION CERTIFICATE

WALSIN LIHWA CORP.

TAIPEI PLANT

台南市鹽水區井水里溪洲路12鄰42-10號

NO.3-10, SHIFON LIAU, CHIN SHUEI LI,

TAIPEI DIST TAIWAN CITY 73743, TAIWAN, R.O.C.

TEL: 886-6-652-0917 FAX: 886-6-652-6934

CUSTOMER :

COMMODITY: Stainless Steel Wire Rod

CERTIFICATE NO: A1809140019

ORDER NO.: 107098917/18000023

SERIFICATION: SUS 304 JIS G4308 304MD

DOC NO.:

LC NO:

SUPPLY CONDITION: BRAP

DATE OF ISSUE: 2018/09/14

DOC No.:

DATE OF TEST: 2018/09/14

Heat No		Thick (Dia)	Qty	Wt	Chemical Composition(wt%)												Mechanical Property						
		(mm)		(Kg)	C x100	Si x100	Mn x100	P x1000	S x1000	Ni x100	Cr x100	Mo x100	Cu x100	N x10000				TS N/mm2	YS N/mm2	EL %	HRB		
Spec	Min Max																						
ST219		17.00	1	549	3.8	36	189	31	2.5	804	1816	14	69	312				577	237	65	71		
Total:			1	549																			

✓ 24#

Co: C1.0

Acc.to JIS G4308 chemistry only.

This inspection certificate is issued according to EN 10204 3.1

Remark:

Micro structure: good.

Microstructure free from continuous grain boundary carbide precipitation as per ASTM A262 practice A.

1. We hereby certify that material described herein has been manufactured and tested with satisfactory results in accordance with requirement of the above material specification.

2. We certify that the material is free from mercury and radiation contamination. Qualification No. of Taiwan Atomic Energy Committee: 136

3. The Above Testing Results Relate Only To The Items Tested.

4. No welding repaired

SUPPLY CONDITION:

A: Annealed

B: Shot-Blasted

C: As Casted

E: Rolled/Skin Pass

H: Precipitation Hardening

HR: Hot Rolled

I: Straightened

K: Cut Edge

L: Polished

M: Cold Rolled

P: Pickled

S: Shaved

W: Cut

X: Temper

CD: Cold Draw

CG: Centerless Ground

PL: Turned or Peeled

We have the following certifications

1. ISO9001:2015 Quality Management System

2. ISO/IEC 17025:2005 Laboratory Management System

3. PED & AD2000-Merkblatt W0

4. DNV · LR · ABS Classification Society certification

5. ISO14001:2015 Environment Management System

6. OHSAS 18001:2007 & TOSHMS Certificate

TEST METHOD :

CHEMICAL-ASTM E1806, E415, E1086, E1019

J C Tseang

Quality Assurance Responsible Personnel

RoHS REPORT INDEX

	NAME	供應商	RoHS report
1	Connector		
1-1	BRASS	宮前五金股份有限公司	ETR24104453
1-2	TEFLON	宏庫貿易有限公司	ETR23800565
1-3	鍍金	呈鎰金屬工藝有限公司	EKR24200117
2	PC-110U	CHIMEI Corporation	48226822m5 001
3	泡棉	義成科技有限公司	HKC23800038
4	TAPE	3M MATERIAL TECHNOLOGY (GUANGZHOU) CO.,LTD.	CANEC23014107402
5	PCB	南亞塑膠工業股份有限公司	ETR23703796
6	熱縮套管	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.	CANEC24009066011
7	Cable		
7-1	外被	良泉工業股份有限公司	ETR23204607
7-2	金屬	良泉工業股份有限公司	ETR23204606
8	螺絲	昇鋁實業股份有限公司	EKR22C02501



測試報告

Test Report

號碼(No.): ETR24104453

日期(Date): 25-Jan-2024

頁數(Page): 1 of 4

宮前五金股份有限公司 (KUON CHEN HARDWARE CO., LTD.)

桃園市龜山區頂湖一街24號 (NO. 24, DINGHU 1ST ST, GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R. O. C.))

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

送樣廠商(Sample Submitted By) : 宮前五金股份有限公司 (KUON CHEN HARDWARE CO., LTD.)

樣品名稱(Sample Name) : FREE CUTTING BRASS BAR

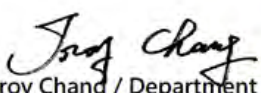
樣品型號(Style/Item No.) : C3604

收件日(Sample Receiving Date) : 18-Jan-2024

測試期間(Testing Period) : 18-Jan-2024 to 25-Jan-2024

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

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


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



PIN CODE: 606CF318

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測試報告

Test Report

號碼(No.): ETR24104453

日期(Date): 25-Jan-2024

頁數(Page): 2 of 4

宮前五金股份有限公司 (KUON CHEN HARDWARE CO., LTD.)

桃園市龜山區頂湖一街24號 (NO. 24, DINGHU 1ST ST, GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R. O. C.))

測試部位敘述 (Test Part Description)

No.1 : 黃銅色金屬 (BRASS METAL)

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
鎘 (Cd) (Cadmium (Cd))	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	73.0
鉛 (Pb) (Lead (Pb))		mg/kg	2	33400
汞 (Hg) (Mercury (Hg))	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.
六價鉻 (Hexavalent Chromium) Cr(VI) (#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.

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. (#2) =
 - a. 當六價鉻結果大於0.13 µg/cm² · 表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).)
 - b. 當六價鉻結果為n.d. (濃度小於0.10 µg/cm²) · 表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating)
 - c. 當六價鉻結果介於 0.10 及 0.13 µg/cm² 時 · 無法確定塗層是否含有六價鉻。(The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.)

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測試報告

Test Report

號碼(No.): ETR24104453

日期(Date): 25-Jan-2024

頁數(Page): 3 of 4

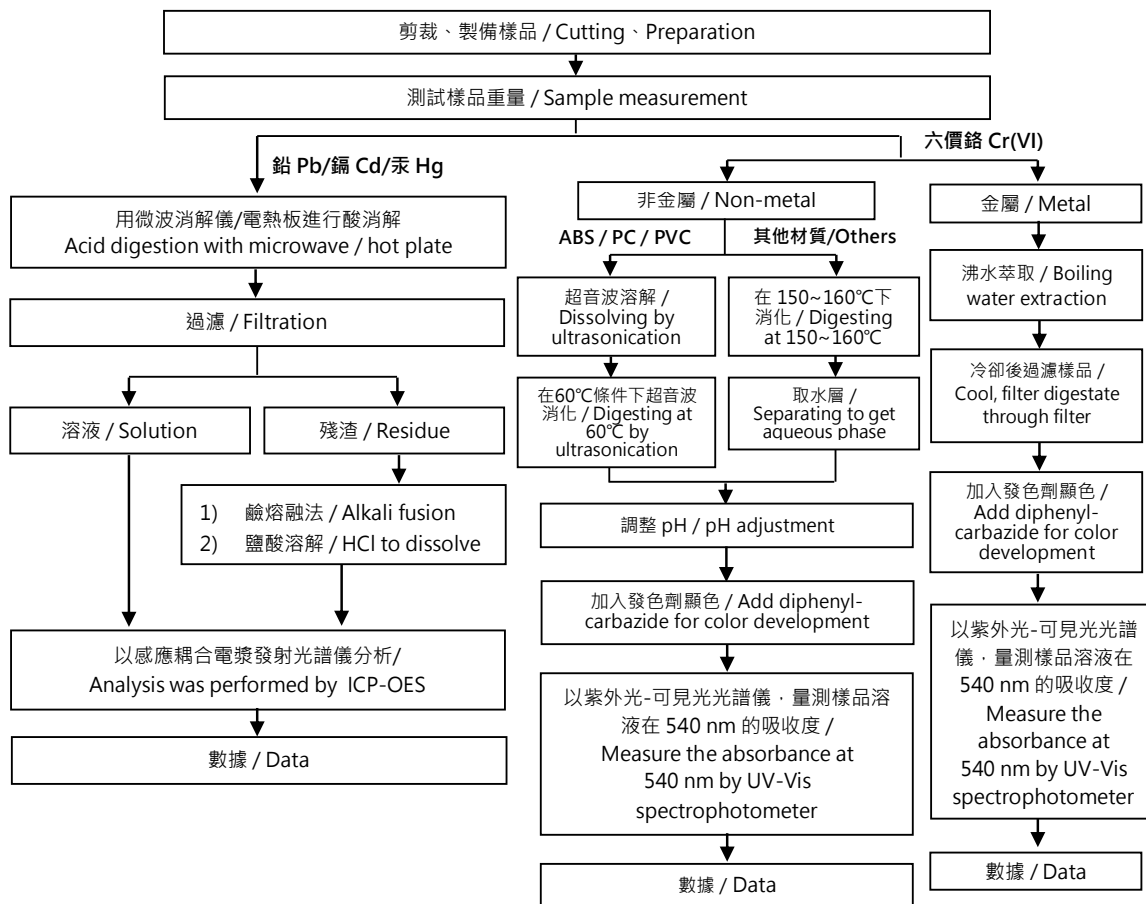
宮前五金股份有限公司 (KUON CHEN HARDWARE CO., LTD.)

桃園市龜山區頂湖一街24號 (NO. 24, DINGHU 1ST ST, GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R. O. C.))

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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測試報告

Test Report

號碼(No.): ETR24104453

日期(Date): 25-Jan-2024

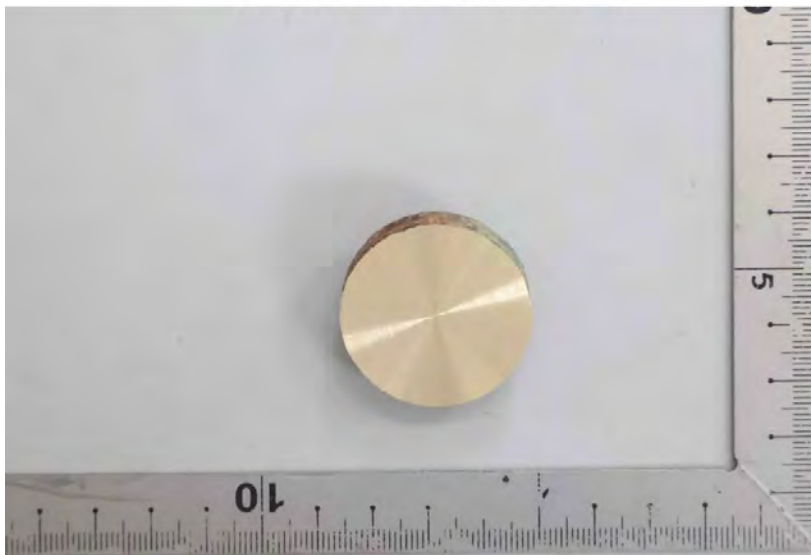
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

ETR24104453

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測試報告

Test Report

號碼(No.): ETR23800565

日期(Date): 10-Aug-2023

頁數(Page): 1 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.)

台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

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

送樣廠商(Sample Submitted By) : 宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.)

樣品名稱(Sample Name) : PTFE ROD 鐵氟龍棒

收件日(Sample Receiving Date) : 02-Aug-2023

測試期間(Testing Period) : 02-Aug-2023 to 10-Aug-2023

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，測試鹵素-氟、氯、溴、碘。 (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.)

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.)

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



PIN CODE: 7563546D

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測試報告

Test Report

號碼(No.): ETR23800565

日期(Date): 10-Aug-2023

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宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.)

台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 白色棒 (WHITE STICK)

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))	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))		mg/kg	2	n.d.	1000
汞 (Hg) (Mercury (Hg))	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))	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.): ETR23800565

日期(Date): 10-Aug-2023

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宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.)

台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

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))	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))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di- (2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	1000
氟 (F) (Fluorine (F)) (CAS No.: 14762-94- 8)	參考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	649000	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537- 15-1)	參考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097- 32-2)	參考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)	參考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-

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測試報告

Test Report

號碼(No.): ETR23800565

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宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.)

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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. 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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Test Report

號碼(No.): ETR23800565

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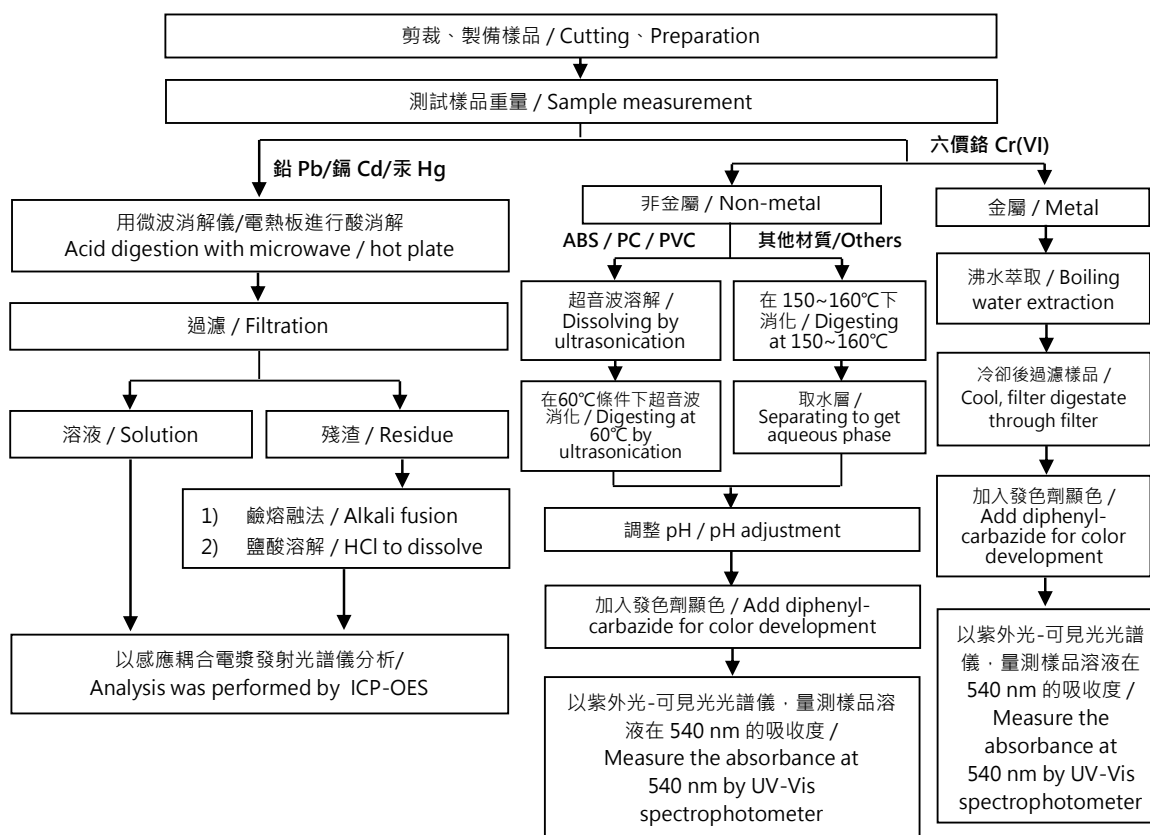
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重金屬流程圖 / Analytical flow chart of heavy metal

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.
(Cr⁶⁺ test method excluded)



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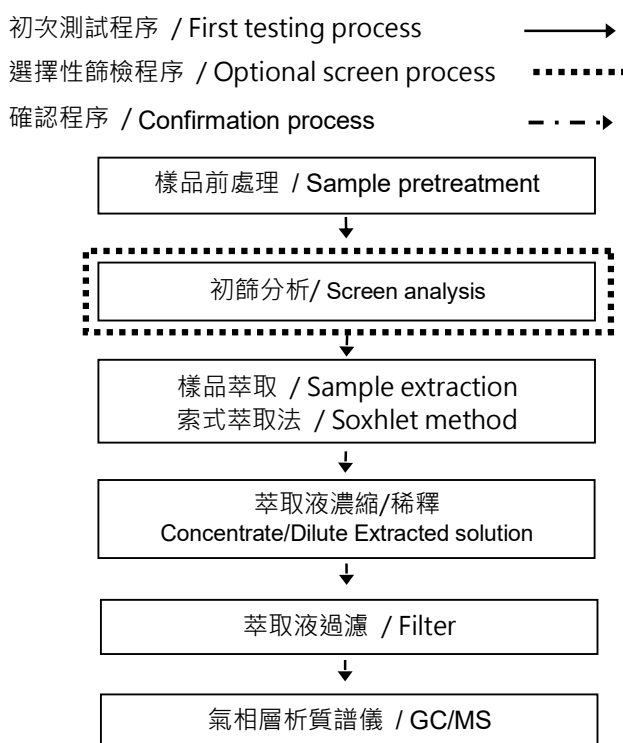
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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Test Report

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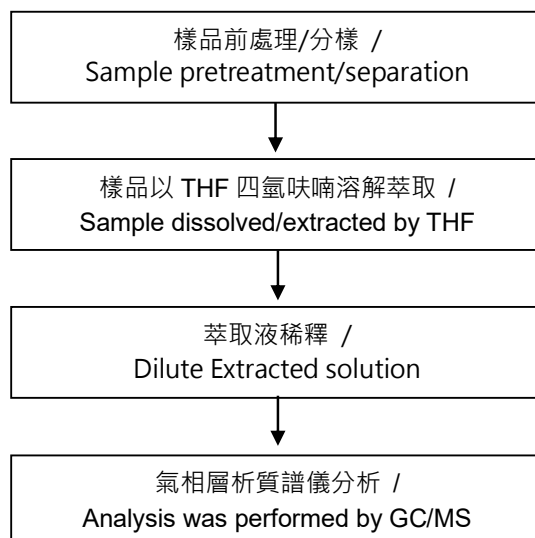
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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測試報告

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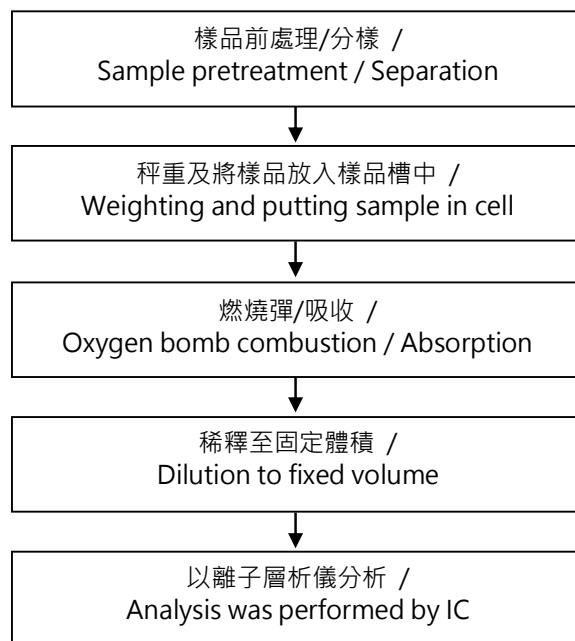
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鹵素分析流程圖 / Analytical flow chart - Halogen



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測試報告

Test Report

號碼(No.): ETR23800565

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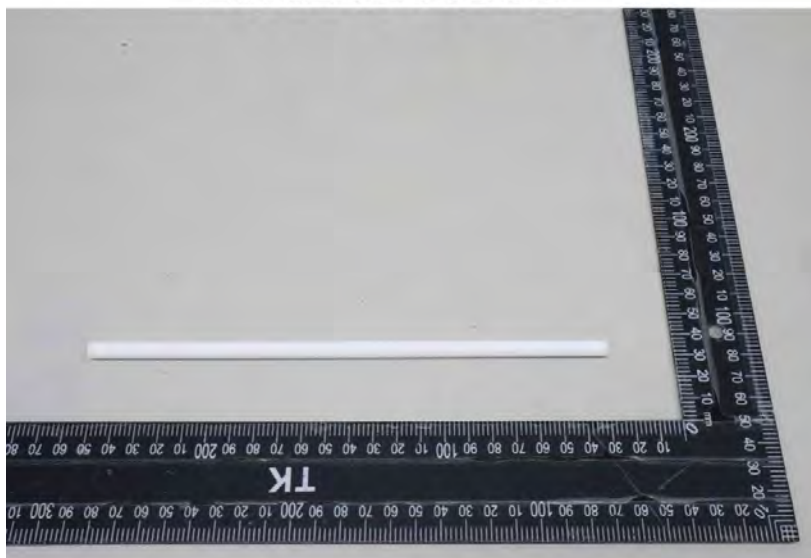
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

ETR23800565



** 報告結尾 (End of Report) **

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測試報告

Test Report

號碼(No.): EKR24200117

日期(Date): 22-Feb-2024

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呈鑑金屬工藝有限公司 (CHENGYI METALCRAFT CO., LTD)

台南市永康區洲工街100號 (NO. 100, ZHOUGONG ST., YONGKANG DIST., TAINAN CITY 710, TAIWAN (R.O.C.))

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

送樣廠商(Sample Submitted By) : 呈鑑金屬工藝有限公司 (CHENGYI METALCRAFT CO., LTD)

樣品名稱(Sample Name) : 鍍金

收件日(Sample Receiving Date) : 02-Feb-2024

測試期間(Testing Period) : 02-Feb-2024 to 22-Feb-2024

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.)

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.)

報告簽署人/張伯睿 博士/部經理
Ray Chang, Ph.D. / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
化學實驗室-高雄/Chemical Laboratory-Kaohsiung



PIN CODE: C2CE97A0

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台南市永康區洲工街100號 (NO. 100, ZHOUGONG ST., YONGKANG DIST., TAINAN CITY 710, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 金色金屬鍍層 (GOLDEN LAYER OF GOLEN COLORED METAL)

No.2 : 金色金屬(含鍍層) (GOLDEN 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)		限值 (Limit)
				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.	---	100
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)		mg/kg	2	233	---	1000
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.	---	1000
六價鉻 (Hexavalent Chromium) Cr(VI) (#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/cm²	0.1	n.d.	---	-
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (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.)	µg/m²	0.5	n.d.	---	-
全氟辛酸 (PFOA)及其鹽類 (Perfluorooctanoic acid (PFOA) and it's salt) (CAS No.: 335-67-1 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/m²	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)		限值 (Limit)
				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.	1000
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	---	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	---	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	---	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	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))	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))		mg/kg	50	---	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	---	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	---	n.d.	1000

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台南市永康區洲工街100號 (NO. 100, ZHOUGONG ST., YONGKANG DIST., TAINAN CITY 710, TAIWAN (R.O.C.))

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. "---" = Not Conducted (未測試項目)
6. (#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.)
7. 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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PFAS Remark :

現有PFAS定量技術是分析PFAS物質的特定結構，但同碳數族群之PFAS酸及鹽類物質，其可被辨識的特定結構相同，因此無法區別所分析的特定結構是來自酸或者鹽類，故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中，相關資訊請參見下表：(下表列舉PFAS物質僅為範例，並不包含所有同碳數族群之PFAS鹽類。)

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛烷磺酸 (Perfluorooctane sulfonates) (PFOS)	1763-23-1
	全氟辛基磺酸鉀 (PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	全氟辛基磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	全氟辛基磺酸銨 (PFOS-NH ₄) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
	全氟辛基磺酸二乙醇銨 (PFOS-NH(OH) ₂) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8
	全氟辛基磺酸四乙基銨 (PFOS-N(C ₂ H ₅) ₄) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
	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)	251099-16-8

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	全氟辛基磺酸鎂 (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	全氟辛基磺酸鈉 (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	全氟辛烷磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hepta-decafluorooctanesulfonate	71463-74-6
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸 (Perfluorooctanoic acid) (PFOA)	335-67-1
	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	全氟辛酸鋰 (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5

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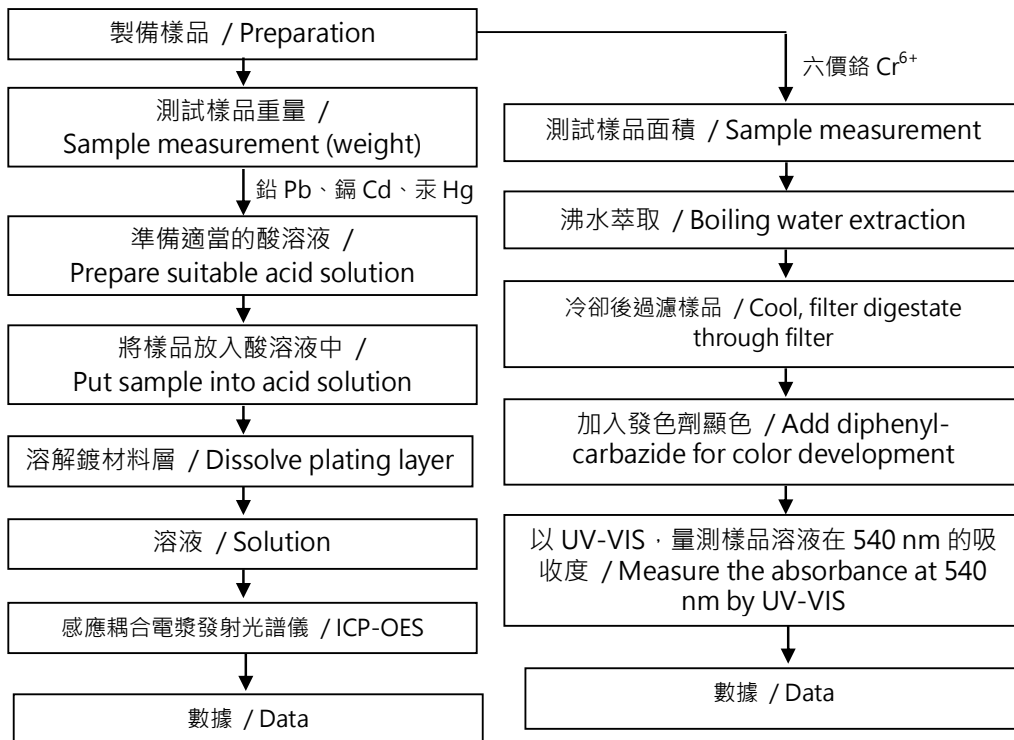
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鍍層重金屬測試流程圖 / Flow Chart of Stripping method for metal analysis

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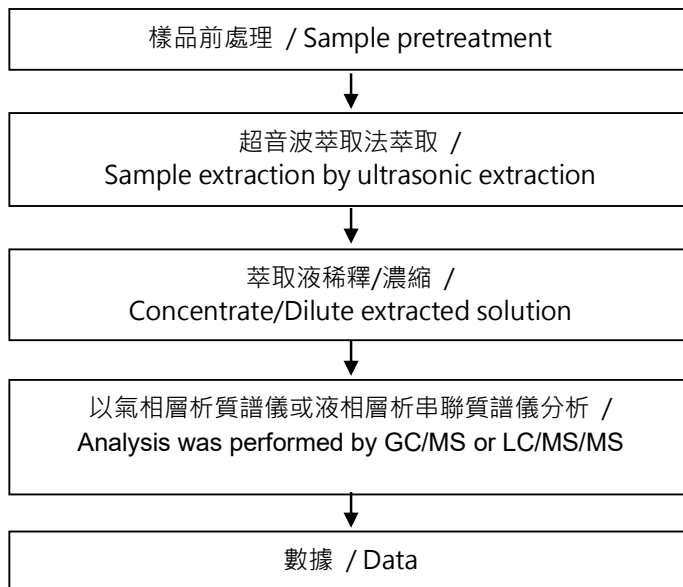
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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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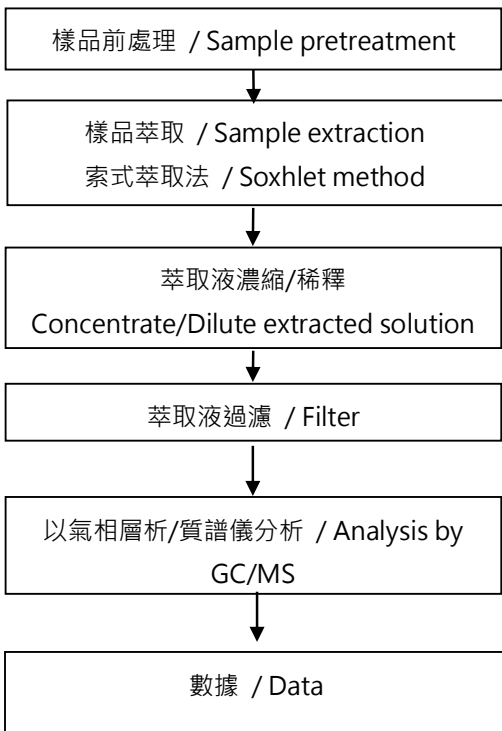
日期(Date): 22-Feb-2024

頁數(Page): 9 of 11

呈鑑金屬工藝有限公司 (CHENGYI METALCRAFT CO., LTD)

台南市永康區洲工街100號 (NO. 100, ZHOUGONG ST., YONGKANG DIST., TAINAN CITY 710, TAIWAN (R.O.C.))

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



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測試報告

Test Report

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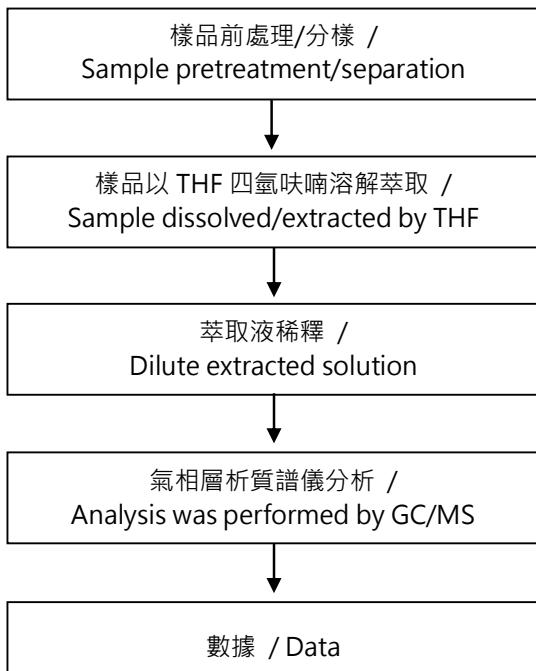
頁數(Page): 10 of 11

呈鑑金屬工藝有限公司 (CHENGYI METALCRAFT CO., LTD)

台南市永康區洲工街100號 (NO. 100, ZHOUGONG ST., YONGKANG DIST., TAINAN CITY 710, TAIWAN (R.O.C.))

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

【測試方法/Test method: IEC 62321-8】



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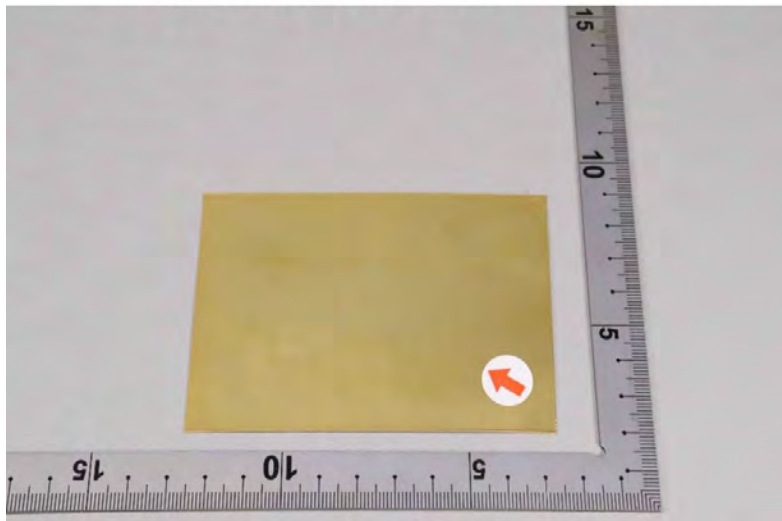
呈鎰金屬工藝有限公司 (CHENGYI METALCRAFT CO., LTD)

台南市永康區洲工街100號 (NO. 100, ZHOUGONG ST., YONGKANG DIST., TAINAN CITY 710, TAIWAN (R.O.C.))

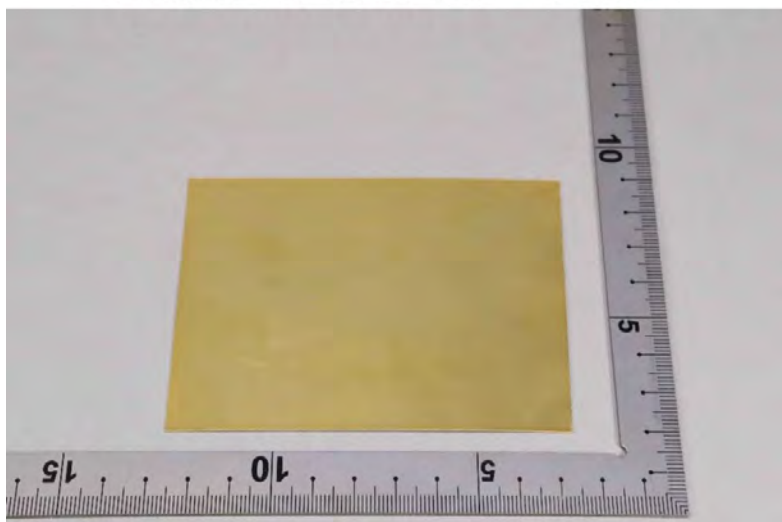
* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

EKR24200117 NO.1



EKR24200117 NO.2



** 報告結尾 (End of Report) **

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Report No.: 48226822m5 001

Page 1 of 7

Client: CHIMEI Corporation
No.398, Sec. 1, Zhongzheng Rd., Rende Dist., Tainan City 717010, Taiwan,
R.O.C.

Test item(s): Plastic

Identification/Model No(s): POLYCARBONATE /
WONDERLITE® PC-110U

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample receiving date: 2023-12-04

Testing period: 2023-12-04 – 2024-01-02

Place of testing: TÜV Rheinland (Shanghai) Co. Ltd.

Test specification:

According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment Directive (EU) 2015/863: Total Content of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers; and Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP)

Halogen (Fluorine, Chlorine, Bromine, Iodine)

Test result:

Pass

Refer to result page

Other Information: Refers to TÜV test report no. 48226822m3 001

For and on behalf of
TÜV Rheinland Taiwan Ltd.

Arthur Cheng

2024-01-02
Date

Arthur Cheng/Project Manager
Name/Position



Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report..

Test Report No.: 48226822m5 001

Page 2 of 7

Material List:

Item: WONDERLITE® PC-110U

Mat. No.	Material	Color	Lab no.
1	Plastic	Transparent	TCL231204-96

Test sample

Test Report No.: 48226822m5 001

Page 3 of 7

Test Method : Total Cadmium, Lead, Mercury, Chromium
 - Ref. to IEC 62321-4:2013 and IEC 62321-5:2013
 Chromium (VI)
 - For Metal material - Ref. to IEC 62321-7-1:2015
 - For Polymer, Electronic material or others materials - Ref. to IEC 62321-7-2:2017
 PBBs, PBDEs - Ref. to IEC 62321-6:2015

Material No.

1

Parameter	Unit	RL	Result
Cadmium (Cd)	mg/kg	2	< RL
Lead (Pb)	mg/kg	2	< RL
Mercury (Hg)	mg/kg	2	< RL
Chromium VI (Cr VI)*	mg/kg	8	< RL
Sum of Polybrominated biphenyls (PBBs)	mg/kg	-	< RL
Monobromobiphenyl	mg/kg	5	< RL
Dibromobiphenyl	mg/kg	5	< RL
Tribromobiphenyl	mg/kg	5	< RL
Tetrabromobiphenyl	mg/kg	5	< RL
Pentabromobiphenyl	mg/kg	5	< RL
Hexabromobiphenyl	mg/kg	5	< RL
Heptabromobiphenyl	mg/kg	5	< RL
Octabromobiphenyl	mg/kg	5	< RL
Nonabromobiphenyl	mg/kg	5	< RL
Decabromobiphenyl	mg/kg	5	< RL
Sum of Polybrominated diphenyl ethers (PBDEs)	mg/kg	-	< RL
Monobromodiphenyl ether	mg/kg	5	< RL
Dibromodiphenyl ether	mg/kg	5	< RL
Tribromodiphenyl ether	mg/kg	5	< RL
Tetrabromodiphenyl ether	mg/kg	5	< RL
Pentabromodiphenyl ether	mg/kg	5	< RL
Hexabromodiphenyl ether	mg/kg	5	< RL
Heptabromodiphenyl ether	mg/kg	5	< RL
Octabromodiphenyl ether	mg/kg	5	< RL
Nonabromodiphenyl ether	mg/kg	5	< RL
Decabromodiphenyl ether	mg/kg	5	< RL

Notes:

- < = less than
- RL = Reporting Limit
- n.a. = not applicable
- mg/kg = milligram per kilogram
- * Once the total Cr content in metal/ plastic or electronic sample is found to be exceeded the limit, the Cr (VI) content will be confirmed with reference to IEC 62321-7-1:2015/ IEC 62321-7-2:2017

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum permissible Limit acc. to 2011/65/EU (mg/kg)	100	1000	1000	1000	1000	1000

Test Report No.: 48226822m5 001

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Test Method : BBP/DBP/DEHP/DIBP - Ref. to IEC 62321-8:2017

Material No.

1

Parameter	Unit	RL	Result
Benzylbutylphthalate (BBP)	mg/kg	50	< RL
Dibutylphthalate (DBP)	mg/kg	50	< RL
Diethylhexylphthalate (DEHP)	mg/kg	50	< RL
Diisobutylphthalate (DIBP)	mg/kg	50	< RL

Notes:

- < = less than
- RL = Reporting Limit
- n.a. = not applicable
- mg/kg = milligram per kilogram

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit acc. to (EU) 2015/863 (mg/kg)	1000	1000	1000	1000

Test Method : Halogen - Following EN 14582; determination by I.C.

Material No.

1

Halogen	Unit	RL	Result
Fluorine (F)	mg/kg	50	< RL
Chlorine (Cl)	mg/kg	50	< RL
Bromine (Br)	mg/kg	50	< RL
Iodine (I)	mg/kg	50	< RL

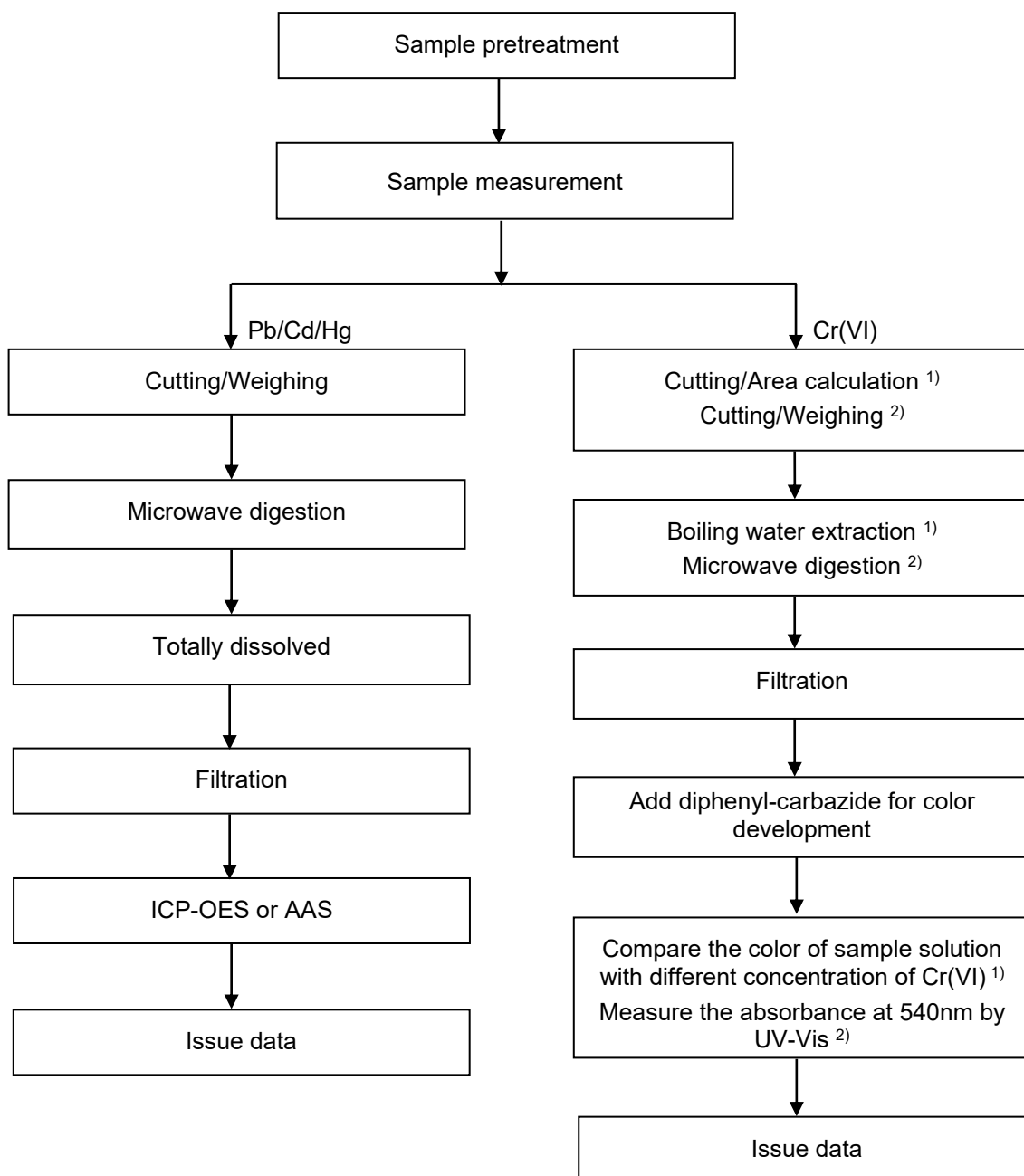
Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

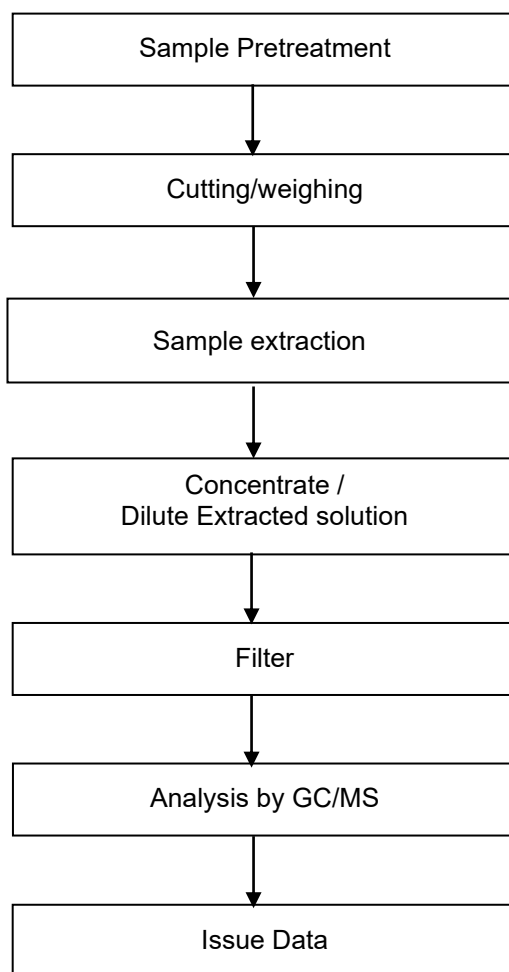
Testing procedure:

RoHS (Pb, Cd, Hg, Cr(VI))

Notes: ¹⁾ For metallic material²⁾ For non-metallic material

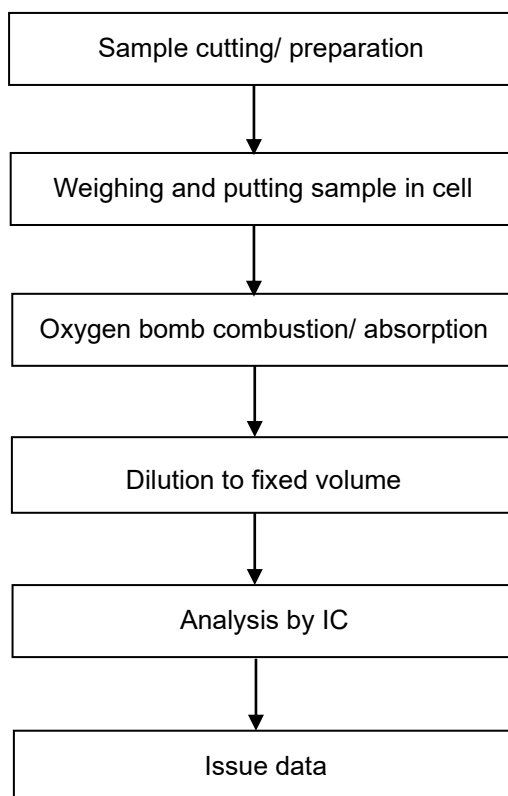
Testing procedure:

RoHS (PBBs/PBDEs, DEHP/DBP/BBP/DIBP)



Testing procedure:

Halogen



--- End of Test-Report ---

測試報告 Test Report

報告編號(No.): HKC23800038

報告日期(DATE): 2023/08/18

頁數(PAGE): 1 of 7

義成科技有限公司 (YIH CHERNG ENTERPRISE CO., LTD.)

臺南市關廟區中正路429號 (NO.429, ZHONGZHENG RD., GUANMIAO DIST., TAINAN CITY 718, TAIWAN (R.O.C.))

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

送樣廠商(Sample Submitted By) : 義成科技有限公司 (YIH CHERNG ENTERPRISE CO., LTD.)
樣品名稱(Sample Description) : 聚乙烯發泡板(EVA黑)

收件日(Sample Receiving Date) : 2023/08/09
測試期間(Testing Period) : 2023/08/09 to 2023/08/18

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


報告簽署人/張伯睿 博士/部經理
Ray Chang, Ph.D. / Department Manager
Signed for and on behalf of
SGS Taiwan Ltd
化學實驗室-高雄/
Chemical Laboratory-Kaohsiung



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測試報告

Test Report

報告編號(No.): HKC23800038

報告日期(DATE): 2023/08/18

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義成科技有限公司 (YIH CHERNG ENTERPRISE CO., LTD.)

臺南市關廟區中正路429號 (NO.429, ZHONGZHENG RD., GUANMIAO DIST., TAINAN CITY 718, TAIWAN (R.O.C.))

測試部位敘述(Test Part Description)

No.1 : 黑色泡棉 (BLACK FOAM)

測試結果(Test Results)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)
				No.1
鉛 (Pb) / Lead (Pb) (CAS No.7439-92-1)	參考IEC 62321-5: 2013 · 以感應耦合電漿原子發射光譜儀分析。 / With reference to IEC 62321-5: 2013. Analysis was performed by ICP-OES.	mg/kg	2	4.58
鎘 (Cd) / Cadmium (Cd) (CAS No.7440-43-9)		mg/kg	2	n.d.
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.
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.
多溴聯苯 (PBBs) / Polybrominated biphenyl (PBBs)				
一溴聯苯 / Monobromobiphenyl	參考IEC 62321-6: 2015 · 以氣相層析質譜儀檢測。 / With reference to IEC 62321-6: 2015, the 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.

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臺南市關廟區中正路429號 (NO.429, ZHONGZHENG RD., GUANMIAO DIST., TAINAN CITY 718, TAIWAN (R.O.C.))

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1
多溴聯苯醚 (PBDEs) / Polybrominted biphenyl ethers (PBDEs)				
一溴聯苯醚 / Monobromodiphenyl ether	參考IEC 62321-6: 2015，以氣相層析質譜儀 檢測。 / With reference to IEC 62321-6: 2015, the 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.
鄰苯二甲酸二異丁酯 (DIBP) / Diisobutyl phthalate (DIBP) (CAS No.84-69-5)	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.
鄰苯二甲酸丁苯甲酯 (BBP) / Butyl benzyl phthalate (BBP) (CAS No.85-68-7)		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.
鄰苯二甲酸二正辛酯 (DNOP) / Di-n-octyl phthalate (DNOP) (CAS No.117-84-0)		mg/kg	50	n.d.

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臺南市關廟區中正路429號 (NO.429, ZHONGZHENG RD., GUANMIAO DIST., TAINAN CITY 718, TAIWAN (R.O.C.))

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)
				No.1
富馬酸二甲酯 (DMFu) / Dimethyl fumarate (DMFu) (CAS No.624-49-7)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。 / With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.1	n.d.
聚氯乙烯 / PVC (Δ)	以紅外光譜分析及焰色法檢測。 / Analysis was performed by FTIR and FLAME Test.	-	-	Negative
全氟辛烷磺酸及其鹽類 / 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.	mg/kg	0.01	n.d.
全氟辛酸 (PFOA)及其鹽類 / Perfluorooctanoic acid (PFOA) and it's salt (CAS No.335-67-1 and its salts)		mg/kg	0.01	n.d.
鹵素-氟(F) / Halogen-Fluorine(F) (CAS No.14762-94-8)	參考BS EN 14582: 2016 · 以離子層析儀分析。 / With reference to BS EN 14582: 2016. Analysis was performed by IC.	mg/kg	50	97.4
鹵素-溴(Br) / Halogen-Bromine(Br) (CAS No.10097-32-2)		mg/kg	50	n.d.
鹵素-氯(Cl) / Halogen-Chlorine(Cl) (CAS No.22537-15-1)		mg/kg	50	n.d.
鹵素-碘(I) / Halogen-Iodine(I) (CAS No.14362-44-8)		mg/kg	50	n.d.

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義成科技有限公司 (YIH CHERNG ENTERPRISE CO., LTD.)

臺南市關廟區中正路429號 (NO.429, ZHONGZHENG RD., GUANMIAO DIST., TAINAN CITY 718, TAIWAN (R.O.C.))

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1
多環芳香烴 / Polycyclic Aromatic Hydrocarbons (PAHs)				
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.
Benzo[e]pyrene (CAS No.192-97-2)		mg/kg	0.2	n.d.
Benzo[a]anthracene (CAS No.56-55-3)		mg/kg	0.2	n.d.
Benzo[b]fluoranthene (CAS No.205-99-2)		mg/kg	0.2	n.d.
Benzo[j]fluoranthene (CAS No.205-82-3)		mg/kg	0.2	n.d.
Benzo[k]fluoranthene (CAS No.207-08-9)		mg/kg	0.2	n.d.
Chrysene (CAS No.218-01-9)		mg/kg	0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.53-70-3)		mg/kg	0.2	n.d.
Benzo[g,h,i]perylene (CAS No.191-24-2)		mg/kg	0.2	n.d.
Indeno[1,2,3-c,d]pyrene (CAS No.193-39-5)		mg/kg	0.2	n.d.
Anthracene (CAS No.120-12-7)		mg/kg	0.2	n.d.
Fluoranthene (CAS No.206-44-0)		mg/kg	0.2	n.d.
Phenanthrene (CAS No.85-01-8)		mg/kg	0.2	n.d.
Pyrene (CAS No.129-00-0)		mg/kg	0.2	0.298
Naphthalene (CAS No.91-20-3)		mg/kg	0.2	n.d.
Sum of 15 PAHs		mg/kg	-	0.298
Acenaphthene (CAS No.83-32-9)	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.
Fluorene (CAS No.86-73-7)		mg/kg	0.2	n.d.
Acenaphthylene (CAS No.208-96-8)		mg/kg	0.2	n.d.

備註(Note) :

1. mg/kg = ppm ; 0.1% = 1000 ppm
2. RL = Reporting Limit (報告極限值)
3. n.d. = Not Detected (未檢出) = Less than (小於) RL = Negative (陰性)
4. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
5. "-" = Not Regulated (無規格值)

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測試報告 Test Report

報告編號(No.): HKC23800038

報告日期(DATE): 2023/08/18

頁數(PAGE): 6 of 7

義成科技有限公司 (YIH CHERNG ENTERPRISE CO., LTD.)

臺南市關廟區中正路429號 (NO.429, ZHONGZHENG RD., GUANMIAO DIST., TAINAN CITY 718, TAIWAN (R.O.C.))

6. Negative = 未檢出 / 陰性 ; Positive = 檢出 / 陽性

7. 全氟辛烷磺酸及其鹽類包含CAS No.:29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0. (PFOS and its salts : CAS No.:29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0.)

8. 全氟辛酸及其鹽類包含CAS No.3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0. (PFOA and its salts: CAS No.3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.)

9. (△): 此項目轉包予台灣檢驗科技股份有限公司材料暨工程實驗室-高雄進行測試。(The testing item(s) was/were subcontracted to SGS Taiwan Ltd. Material & Engineering Laboratory – Kaohsiung.)

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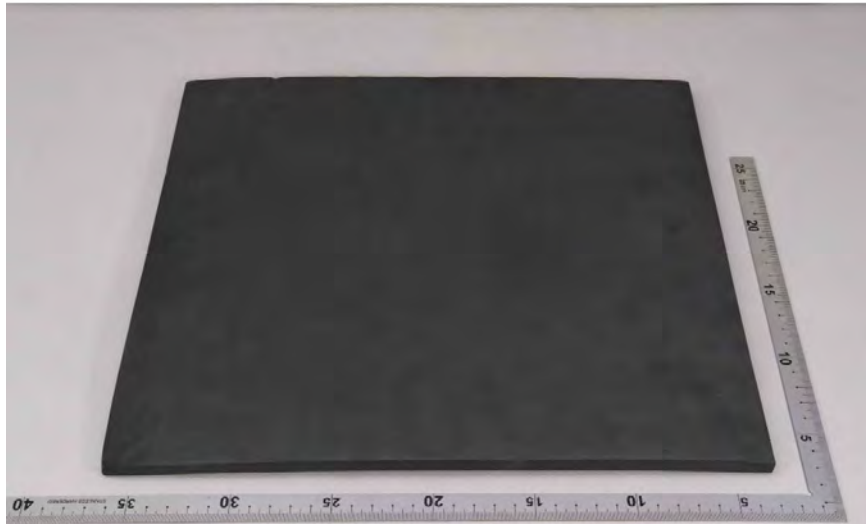
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *

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

HKC23800038**** 報告結尾 (End of Report) ****

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Test Report

No.: CANEC23014107402

Date: Nov 20, 2023

Page 1 of 8

Client Name: 3M MATERIAL TECHNOLOGY (GUANGZHOU) CO.,LTD.

Client Address: NO.9,NANXIANG 2 ROAD,SCIENCE CITY GUANGZHOU HIGH TECH INDUSTRY DEVELOPMENT DISTRICT

Sample Name: 3M 9888T Tissue Tape

Model No.: 9888T

Client Ref. Information: 9810T, 9183T, 6408

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

SGS Job No.: GZP23-019307

Sample Receiving Date: Nov 15, 2023

Testing Period: Nov 15, 2023 ~ Nov 20, 2023

Test Requested: Select 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).

Test Requirement	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

Coral Qiu

Coral Qiu

Approved Signatory



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0141074-0001.C001	Colorless transparent double-side adhesive sheet

Remarks:

- (1) 1 mg/kg = 1 ppm = 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+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
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))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND



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Guangzhou Branch Technical Laboratory

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Test Item(s)	Limit	Unit(s)	MDL	A1
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalate(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) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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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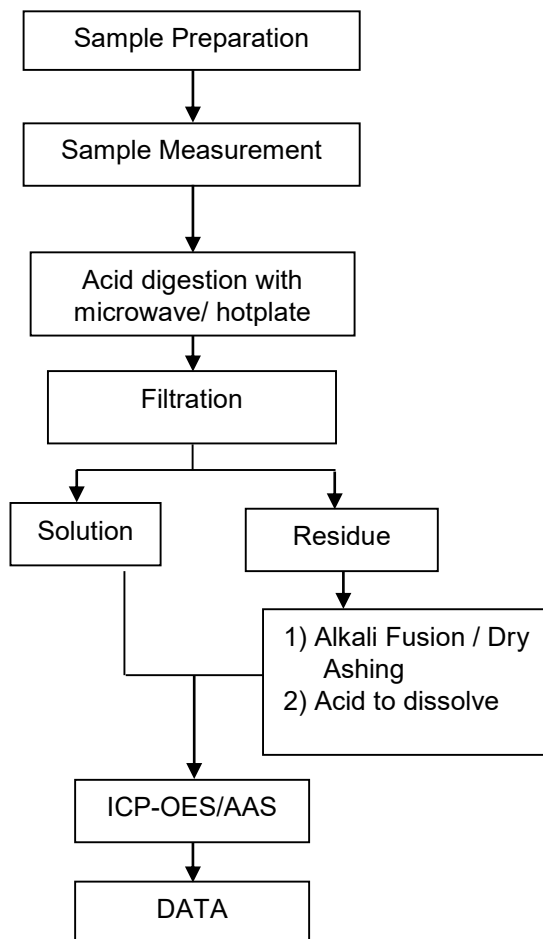
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Elements Testing Flow Chart

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



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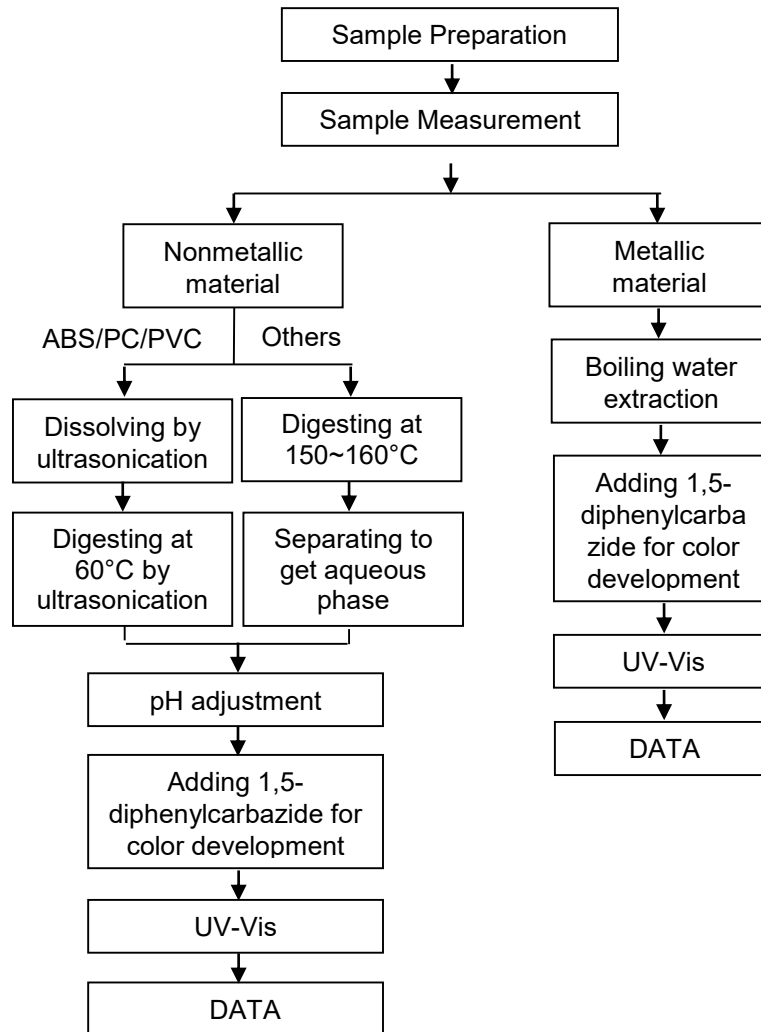
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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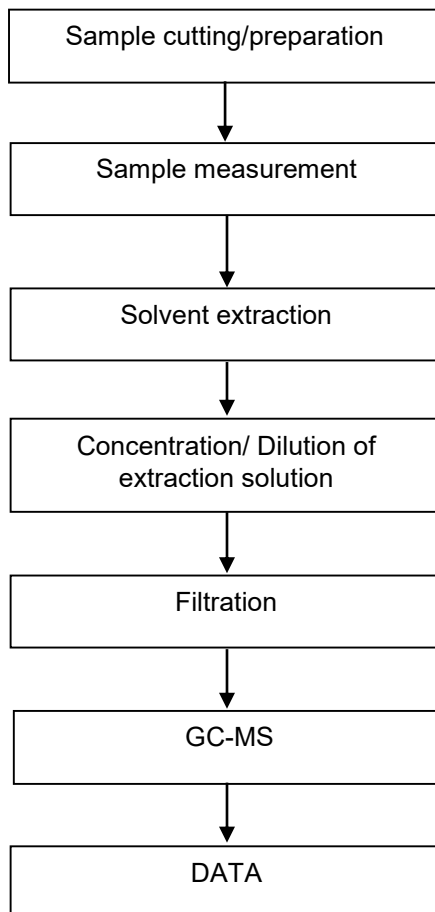
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PBBs/PBDEs Testing Flow Chart



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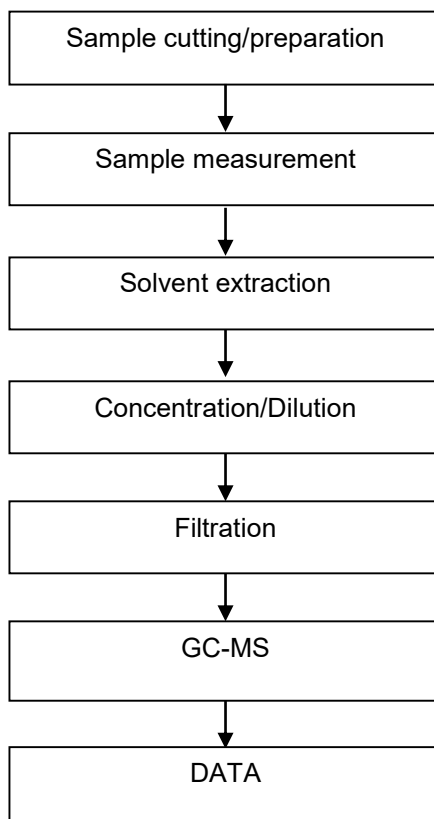
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Phthalates Testing Flow Chart



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Sample Photo:



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測試報告

Test Report

號碼(No.): ETR23703796

日期(Date): 24-Jul-2023

頁數(Page): 1 of 31

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南亞電子材料(惠州)有限公司 (NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台北市松山區敦化北路201號 (NO. 201 TUNG HWA NORTH ROAD, SONGSHAN DIST., TAIPEI, TAIWAN, R.O.C.)

江蘇省昆山市昆山經濟技術開發區長江南路201號 (201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, KUNSHAN, JIANG SU, CHINA 215300)

廣東省惠州市博羅縣石灣鎮永石大道230號 (NO. 230, YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

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

送樣廠商(Sample Submitted By) : 南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

樣品名稱(Sample Name) : LAMINATE (UL E98983)

樣品型號(Style/Item No.) : NP-140R/NP-140TL

訂單編號(Order No.) : 3608239

收件日(Sample Receiving Date) : 17-Jul-2023

測試期間(Testing Period) : 17-Jul-2023 to 24-Jul-2023

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.)

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.)

Troy Chang

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



PIN CODE: D3FC4046

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測試部位敘述 (Test Part Description)

No.1 : 銅色/棕色板子 (COPPER COLORED/BROWN SHEET)

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))	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))		mg/kg	2	5.42	1000
汞 (Hg) (Mercury (Hg))	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))	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
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	參考US EPA 3052: 1996 · 以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-
氧化鈹 (BeO) (Beryllium oxide (BeO)) (CAS No.: 1304-56-9)	由鈹結果計算得之。(Calculated from the result of Beryllium.)	mg/kg	2▲	n.d.	-
聚氯乙烯 (Polyvinylchloride) (PVC)	參考ASTM E1252: 2021 · 以傅立葉轉換紅外線光譜儀及焰色法分析。(With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.)	**	-	Negative	-

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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 (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
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
多氯聯苯 (PCBs) (Polychlorinated biphenyls (PCBs))	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	0.5	n.d.	-
多氯萘 (PCNs) (Polychlorinated naphthalene (PCNs))		mg/kg	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)	限值 (Limit)
				No.1	
多氯三聯苯 (PCTs) (Polychlorinated terphenyls (PCTs))	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	0.5	n.d.	-
短鏈氯化石蠟(C10-C13) (SCCP) (Short Chain Chlorinated Paraffins(C10-C13) (SCCP)) (CAS No.: 85535-84-8)	參考ISO 18219-1: 2021 · 以氣相層析儀/質譜儀分析。(With reference to ISO 18219-1: 2021, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
石棉 (Asbestos)					
白石綿/溫石綿 (Chrysotile) (CAS No.: 12001-29-5)	參考EPA 600/R-93/116: 1993 · 以立體顯微鏡 (SM)與分散染色式偏光顯微鏡(DS-PLM)及X光繞射光譜分析法(XRD)分析。(With reference to EPA 600/R-93/116: 1993, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)	-	-	Negative	-
褐石綿/鐵石綿 (Amosite) (CAS No.: 12172-73-5)		-	-	Negative	-
青石綿 (Crocidolite) (CAS No.: 12001-28-4)		-	-	Negative	-
斜方角閃石綿 (Anthophyllite) (CAS No.: 77536-67-5)		-	-	Negative	-
透閃石綿 (Tremolite) (CAS No.: 77536-68-6)		-	-	Negative	-
陽起石綿 (Actinolite) (CAS No.: 77536-66-4)		-	-	Negative	-
三丁基錫 (TBT) (Tributyl tin (TBT))	參考ISO 17353: 2004 · 以氣相層析儀/火焰光度偵測器分析。(With reference to ISO 17353: 2004, analysis was performed by GC/FPD.)	mg/kg	0.03	n.d.	-
三苯基錫 (TPT) (Triphenyl tin (TPT))		mg/kg	0.03	n.d.	-
二丁基錫 (DBT) (Dibutyl tin (DBT))		mg/kg	0.03	n.d.	-
二辛基錫 (DOT) (Diocetyl tin (DOT))		mg/kg	0.03	n.d.	-
三丙基錫 (TPrT) (Tripropyl tin (TPrT))		mg/kg	0.03	n.d.	-
氧化雙三丁基錫 (TBTO) (Bis(tributyltin) oxide (TBTO)) (CAS No.: 56-35-9)	由三丁基錫結果計算得之。(Calculated from the result of Tributyl Tin (TBT).)	mg/kg	0.03▲	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
2-(2'-羥基-3',5'-二-叔-戊基苯基)苯並三唑 (紫外線吸收劑328) (2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)) (CAS No.: 25973-55-1)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
2-[2-羥基-3',5'-二-叔-丁基苯基]-苯並三唑 (紫外線吸收劑320) (2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)) (CAS No.: 3846-71-7)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
富馬酸二甲酯 (DMFu) (Dimethyl fumarate (DMFu)) (CAS No.: 624-49-7)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
磷酸三(2-氯乙基)酯 (TCEP) (Tris(2-chloroethyl) phosphate (TCEP)) (CAS No.: 115-96-8)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
磷酸三(1-氯-2-丙基)酯 (TCPP) (Tris(1-chloro-2-propyl) phosphate (TCPP)) (CAS No.: 13674-84-5)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
磷酸三(1,3-二氯異丙基)酯 (Tris(1,3-dichloro-2-propyl) phosphate) (CAS No.: 13674-87-8)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	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)	限值 (Limit)
				No.1	
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 62321-9: 2021 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.)	mg/kg	20	n.d.	-
氫氟碳化合物 (Hydrofluorocarbon) (HFCs)					
HFC-23 (CHF3) (CAS No.: 75-46-7)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
HFC-32 (CH2F2) (CAS No.: 75-10-5)		mg/kg	1	n.d.	-
HFC-41 (CH3F) (CAS No.: 593-53-3)		mg/kg	1	n.d.	-
HFC-43-10mee (C5H2F10)		mg/kg	1	n.d.	-
HFC-125 (C2HF5)		mg/kg	1	n.d.	-
HFC-134 (C2H2F4)		mg/kg	1	n.d.	-
HFC-134a (CH2FCF3) (CAS No.: 811-97-2)		mg/kg	1	n.d.	-
HFC-143 (CH3F3)		mg/kg	1	n.d.	-
HFC-143a (CH3F3)		mg/kg	1	n.d.	-
HFC-152a (C2H4F2) (CAS No.: 75-37-6)		mg/kg	1	n.d.	-
HFC-227ea (C3HF7) (CAS No.: 431-89-0)		mg/kg	1	n.d.	-
HFC-236fa (C3H2F6)		mg/kg	1	n.d.	-

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廣東省惠州市博羅縣石灣鎮永石大道230號 (NO. 230, YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
HFC-236ea (C3H2F6) (CAS No.: 431-63-0)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
HFC-245ca (C3H3F5)		mg/kg	1	n.d.	-
HFC-245fa (C3H3F5)		mg/kg	1	n.d.	-
HFC-365mfc (C4H5F5)		mg/kg	1	n.d.	-
全氟化碳 (Perfluorocarbon) (PFCs)					
四氟甲烷 (Freon-14) (CAS No.: 75-73-0)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
六氟乙烷 (Fluorocarbon 116) (CAS No.: 76-16-4)		mg/kg	1	n.d.	-
八氟丙烷 (Freon 218) (CAS No.: 76-19-7)		mg/kg	1	n.d.	-
十氟丁烷 (Decafluorobutane) (CAS No.: 355-25-9)		mg/kg	1	n.d.	-
八氟環丁烷 (Freon C318) (CAS No.: 115-25-3)		mg/kg	1	n.d.	-
全氟-1-丁烯 (Perfluor-1-butene) (CAS No.: 357-26-6)		mg/kg	1	n.d.	-
全氟異丁烯 (Perfluorisobutene) (CAS No.: 382-21-8)		mg/kg	1	n.d.	-
1,4-二氫八氟丁烷 (1,4-dihydrooctafluorobutane) (CAS No.: 377-36-6)		mg/kg	1	n.d.	-
2-全氟甲基丁烷 (Nonafluor-2-(trifluoromethyl)butane) (CAS No.: 594-91-2)		mg/kg	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)	限值 (Limit)
				No.1	
全氟戊烷 (Perfluoro-n-pentane) (CAS No.: 678-26-2)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
2-全氟甲基戊烷 (2-Perfluoromethylpentane) (CAS No.: 355-04-4)		mg/kg	1	n.d.	-
全氟己烷 (Perfluorohexane) (CAS No.: 355-42-0)		mg/kg	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbons) (CFCs)					
CFC-11	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
CFC-12		mg/kg	1	n.d.	-
CFC-113		mg/kg	1	n.d.	-
CFC-114		mg/kg	1	n.d.	-
CFC-115		mg/kg	1	n.d.	-
CFC-13		mg/kg	1	n.d.	-
CFC-111		mg/kg	1	n.d.	-
CFC-112		mg/kg	1	n.d.	-
CFC-211		mg/kg	1	n.d.	-
CFC-212		mg/kg	1	n.d.	-
CFC-213		mg/kg	1	n.d.	-
CFC-214		mg/kg	1	n.d.	-
CFC-215		mg/kg	1	n.d.	-
CFC-216		mg/kg	1	n.d.	-
CFC-217		mg/kg	1	n.d.	-

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				No.1	
氟氯烴碳化物 (Hydrochlorofluorocarbons) (HCFCs)					
HCFC-21	參考US EPA 5021A: 2014，以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
HCFC-22		mg/kg	1	n.d.	-
HCFC-31		mg/kg	1	n.d.	-
HCFC-121		mg/kg	1	n.d.	-
HCFC-122		mg/kg	1	n.d.	-
HCFC-123		mg/kg	1	n.d.	-
HCFC-124		mg/kg	1	n.d.	-
HCFC-131		mg/kg	1	n.d.	-
HCFC-132b		mg/kg	1	n.d.	-
HCFC-133a		mg/kg	1	n.d.	-
HCFC-141b		mg/kg	1	n.d.	-
HCFC-142b		mg/kg	1	n.d.	-
HCFC-221		mg/kg	1	n.d.	-
HCFC-222		mg/kg	1	n.d.	-
HCFC-223		mg/kg	1	n.d.	-
HCFC-224		mg/kg	1	n.d.	-
HCFC-225ca		mg/kg	1	n.d.	-
HCFC-225cb		mg/kg	1	n.d.	-
HCFC-226		mg/kg	1	n.d.	-
HCFC-231		mg/kg	1	n.d.	-
HCFC-232		mg/kg	1	n.d.	-
HCFC-233		mg/kg	1	n.d.	-
HCFC-234		mg/kg	1	n.d.	-
HCFC-235		mg/kg	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)	限值 (Limit)
				No.1	
HCFC-241	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
HCFC-242		mg/kg	1	n.d.	-
HCFC-243		mg/kg	1	n.d.	-
HCFC-244		mg/kg	1	n.d.	-
HCFC-251		mg/kg	1	n.d.	-
HCFC-252		mg/kg	1	n.d.	-
HCFC-253		mg/kg	1	n.d.	-
HCFC-261		mg/kg	1	n.d.	-
HCFC-262		mg/kg	1	n.d.	-
HCFC-271		mg/kg	1	n.d.	-
HCFC-141		mg/kg	1	n.d.	-
HCFC-142		mg/kg	1	n.d.	-
HCFC-151		mg/kg	1	n.d.	-
HCFC-225		mg/kg	1	n.d.	-
溴甲烷 (Methyl Bromide) (CAS No.: 74-83-9)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
海龍 (Halons)					
海龍-1211 (Halon-1211) (CAS No.: 353-59-3)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
海龍-1301 (Halon-1301) (CAS No.: 75-63-8)		mg/kg	1	n.d.	-
海龍-2402 (Halon-2402) (CAS No.: 124-73-2)		mg/kg	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)	限值 (Limit)
				No.1	
不完全鹵化氟溴化物 (Hydrobromofluorocarbons) (HBFCs)					
HBFC-21B2 (CH ₂ Br ₂) (CAS No.: 1868-53-7)	參考US EPA 5021A: 2014，以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
HBFC-22B1 (CH ₂ FBr) (CAS No.: 1511-62-2)		mg/kg	1	n.d.	-
HBFC-31B1 (CH ₂ FBr) (CAS No.: 373-52-4)		mg/kg	1	n.d.	-
HBFC-121B4 (C ₂ H ₂ Br ₄)		mg/kg	1	n.d.	-
HBFC-122B3 (C ₂ H ₂ FBr ₃)		mg/kg	1	n.d.	-
HBFC-123B2 (C ₂ H ₂ F ₂ Br ₂)		mg/kg	1	n.d.	-
HBFC-124B1 (C ₂ H ₂ F ₃ Br)		mg/kg	1	n.d.	-
HBFC-131B3 (C ₂ H ₂ F ₄ Br)		mg/kg	1	n.d.	-
HBFC-132B2 (C ₂ H ₂ F ₃ Br ₂)		mg/kg	1	n.d.	-
HBFC-133B1 (C ₂ H ₂ F ₄ Br)		mg/kg	1	n.d.	-
HBFC-141B2 (C ₂ H ₃ FBr ₂)		mg/kg	1	n.d.	-
HBFC-142B1 (C ₂ H ₃ F ₂ Br)		mg/kg	1	n.d.	-
HBFC-151B1 (C ₂ H ₄ FBr)		mg/kg	1	n.d.	-
HBFC-221B6 (C ₃ H ₂ Br ₆)		mg/kg	1	n.d.	-
HBFC-222B5 (C ₃ H ₂ FBr ₅)		mg/kg	1	n.d.	-
HBFC-223B4 (C ₃ H ₂ F ₂ Br ₄)		mg/kg	1	n.d.	-
HBFC-224B3 (C ₃ H ₂ F ₃ Br ₃)		mg/kg	1	n.d.	-
HBFC-225B2 (C ₃ H ₂ F ₄ Br ₂)		mg/kg	1	n.d.	-
HBFC-226B1 (C ₃ H ₂ F ₅ Br)		mg/kg	1	n.d.	-
HBFC-231B5 (C ₃ H ₂ F ₆ Br)		mg/kg	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)	限值 (Limit)
				No.1	
HBFC-232B4 (C3H2F2Br4)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
HBFC-233B3 (C3H2F3Br3)		mg/kg	1	n.d.	-
HBFC-234B2 (C3H2F4Br2)		mg/kg	1	n.d.	-
HBFC-235B1 (C3H2F5Br)		mg/kg	1	n.d.	-
HBFC-241B4 (C3H3FBr4)		mg/kg	1	n.d.	-
HBFC-242B3 (C3H3F2Br3)		mg/kg	1	n.d.	-
HBFC-243B2 (C3H3F3Br2)		mg/kg	1	n.d.	-
HBFC-244B1 (C3H3F4Br)		mg/kg	1	n.d.	-
HBFC-251B3 (C3H4FBr3)		mg/kg	1	n.d.	-
HBFC-252B2 (C3H4F2Br2)		mg/kg	1	n.d.	-
HBFC-253B1 (C3H4F3Br)		mg/kg	1	n.d.	-
HBFC-261B2 (C3H5FBr2)		mg/kg	1	n.d.	-
HBFC-262B1 (C3H5F2Br)		mg/kg	1	n.d.	-
HBFC-271B1 (C3H6FBr)		mg/kg	1	n.d.	-
氯碳氫化物 (Chlorinate hydrocarbon) (CHCs)					
1,1,1,2-四氯乙烷 (1,1,1,2-Tetrachloroethane) (CAS No.: 630-20-6)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
1,1,1-三氯乙烷 (1,1,1-Trichloroethane) (CAS No.: 71-55-6)		mg/kg	1	n.d.	-
1,1,2,2-四氯乙烷 (1,1,2,2-Tetrachloroethane) (CAS No.: 79-34-5)		mg/kg	1	n.d.	-
1,1,2-三氯乙烷 (1,1,2-Trichloroethane) (CAS No.: 79-00-5)		mg/kg	1	n.d.	-

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廣東省惠州市博羅縣石灣鎮永石大道230號 (NO. 230, YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
1,1-二氯乙烷 (1,1-Dichloroethane) (CAS No.: 75-34-3)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
1,1-二氯乙烯 (1,1-Dichloroethylene) (CAS No.: 75-35-4)		mg/kg	1	n.d.	-
1,1-二氯丙烯 (1,1-Dichloropropene) (CAS No.: 563-58-6)		mg/kg	1	n.d.	-
1,2,3-三氯丙烷 (1,2,3-Trichloropropane) (CAS No.: 96-18-4)		mg/kg	1	n.d.	-
1,2-二氯乙烷 (1,2-Dichloroethane) (CAS No.: 107-06-2)		mg/kg	1	n.d.	-
1,2-二氯丙烷 (1,2-Dichloropropane) (CAS No.: 78-87-5)		mg/kg	1	n.d.	-
1,3-二氯丙烷 (1,3-Dichloropropane) (CAS No.: 142-28-9)		mg/kg	1	n.d.	-
2,2-二氯丙烷 (2,2-Dichloropropane) (CAS No.: 594-20-7)		mg/kg	1	n.d.	-
四氯甲烷(四氯化碳) (Carbon tetrachloride) (CAS No.: 56-23-5)		mg/kg	1	n.d.	-
氯乙烷 (Chloroethane) (CAS No.: 75-00-3)		mg/kg	1	n.d.	-
氯仿 (Chloroform) (CAS No.: 67-66-3)		mg/kg	1	n.d.	-
氯甲烷 (Chloromethane) (CAS No.: 74-87-3)		mg/kg	1	n.d.	-
順-1,2-二氯乙烯 (cis-1,2-Dichloroethene) (CAS No.: 156-59-2)		mg/kg	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)	限值 (Limit)
				No.1	
順-1,3-二氯丙烯 (cis-1,3-Dichloropropene) (CAS No.: 10061-01-5)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
六氯-1,3-丁二烯 (Hexachlorobutadiene) (CAS No.: 87-68-3)		mg/kg	1	n.d.	-
二氯甲烷 (Dichloromethane) (CAS No.: 75-09-2)		mg/kg	1	n.d.	-
四氯乙烯 (Tetrachloroethene) (CAS No.: 127-18-4)		mg/kg	1	n.d.	-
反-1,2-二氯乙烯 (trans-1,2-Dichloroethene) (CAS No.: 156-60-5)		mg/kg	1	n.d.	-
反-1,3-二氯丙烯 (trans-1,3-Dichloropropene) (CAS No.: 10061-02-6)		mg/kg	1	n.d.	-
三氯乙烯 (Trichloroethylene) (CAS No.: 79-01-6)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
六氟化硫 (Sulfur hexafluoride) (CAS No.: 2551-62-4)		mg/kg	1	n.d.	-
砷 (Arsenic) (As) (※ E)	參考RSTS-EE-SVHC-007 · 以感應耦合電漿發射光譜儀分析。(With reference to RSTS-EE-SVHC-007, analysis was performed by ICP-OES.)	mg/kg	50	n.d.	-
五氧化二砷 (As ₂ O ₅) (Diarsenic pentaoxide (As ₂ O ₅)) (CAS No.: 1303-28-2)	由砷結果計算得之。(Calculated from the result of Arsenic.)	mg/kg	50▲	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
三氧化二砷 (As ₂ O ₃) (Diarsenic trioxide (As ₂ O ₃)) (CAS No.: 1327-53-3)	由砷結果計算得之。(Calculated from the result of Arsenic.)	mg/kg	50▲	n.d.	-
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	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))		mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		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.	-
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)		mg/kg	50	n.d.	-
鄰苯二甲酸二甲酯 (DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3)		mg/kg	50	n.d.	-
鄰苯二甲酸二環己酯 (DCHP) (Di-cyclohexyl phthalate (DCHP)) (CAS No.: 84-61-7)		mg/kg	50	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
鄰苯二甲酸二苯酯 (DPhP) (Diphenyl phthalate (DPhP)) (CAS No.: 84-62-8)	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.	-
鄰苯二甲酸二苯甲基酯 (Dibenzyl phthalate) (CAS No.: 523-31-9)		mg/kg	50	n.d.	-
鄰苯二甲酸二異辛酯 (DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)		mg/kg	50	n.d.	-
鄰苯二甲酸二丙酯 (DPrP) (Dipropyl phthalate (DPrP)) (CAS No.: 131-16-8)		mg/kg	50	n.d.	-
鄰苯二甲酸二正壬酯 (DNNP) (Di-n-nonyl phthalate (DNNP)) (CAS No.: 84-76-4)		mg/kg	50	n.d.	-
鄰苯二甲酸二乙酯 (DEP) (Di-ethyl phthalate (DEP)) (CAS No.: 84-66-2)		mg/kg	50	n.d.	-
二氯化鈷 (CoCl ₂) (Cobalt dichloride (CoCl ₂)) (CAS No.: 7646-79-9)	以感應耦合電漿發射光譜儀，離子層析儀分析；由氯、鈷的結果計算得之。(Analysis was performed by ICP-OES, IC. Calculated from the results of Cobalt, Chlorine.)	mg/kg	50▲	n.d.	-
溴氯甲烷 (Bromochloromethan) (CAS No.: 74-97-5)	參考US EPA 5021A: 2014，以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
中鏈氯化石蠟(C14-C17) (MCCP) (Medium Chain Chlorinated Paraffins(C14-C17) (MCCP)) (CAS No.: 85535-85-9)	參考ISO 18219-2: 2021，以氣相層析儀/質譜儀分析。(With reference to ISO 18219-2: 2021, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)	參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	57500	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)	參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	386	-

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. 石棉定性分析試驗範圍: <0.1%~100% · 石棉鑑定的判定基準是以檢出含有石棉纖維為『Positive』, 未檢出石棉纖維為『Negative』。(Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".)

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8. ▲ : MDL是針對元素/測試化合物之評估。(The MDL was evaluated for element / tested substance.)

換算公式 (Conversion Formula) : $AX = A \times F$

AX	A	F
五氧化二砷 (Diarsenic pentaoxide)	砷 (Arsenic)	1.5339
三氧化二砷 (Diarsenic trioxide)	砷 (Arsenic)	1.3203
氧化鈹 (Beryllium oxide (BeO))	鈹 (Beryllium)	2.7753
氧化雙三丁基錫 (Bis(tributyltin)oxide) (TBTO)	三丁基錫 (Tributyl Tin) (TBT)	1.0276

參數換算表 (Parameter Conversion Table) :

https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others

9. (※ E): 被萃取出的溶出砷是以感應耦合電漿發射光譜儀檢測得之。(The extracted soluble Arsenic is detected by ICP-OES.)
10. 鈹青銅是一種主要成份為鈹及銅的合金, 當偵測不到總鈹含量時, 亦表示不含鈹青銅。
(Since beryllium copper is a metal alloy of copper and beryllium and the test result is n.d. for beryllium, we can have conclusion that the beryllium copper is n.d..)
11. 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.)
12. 本報告部份測試結果係引用自報告 ETR23703795 之樣品測試結果。(The some test results of this report were quoted from ETR23703795)

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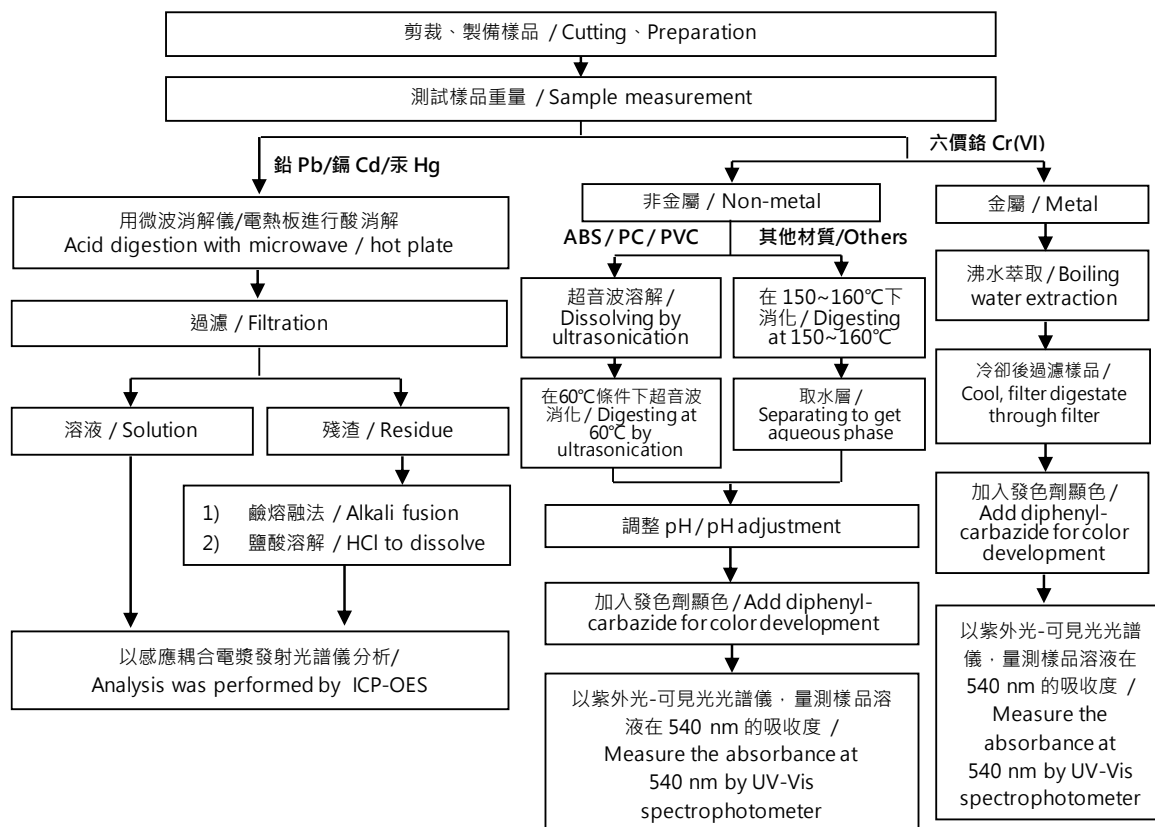
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重金屬流程圖 / Analytical flow chart of heavy metal

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.

(Cr⁶⁺ test method excluded)



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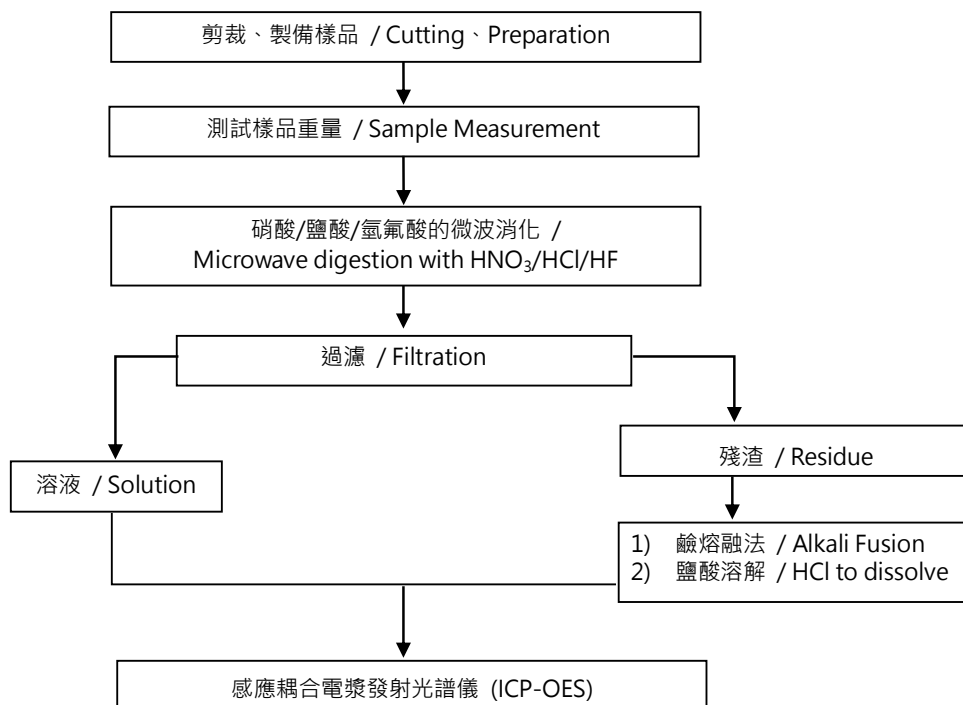
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元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

根據以下的流程圖之條件，樣品已完全溶解。

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

【參考方法/Reference method : US EPA 3051A、US EPA 3052】



* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.

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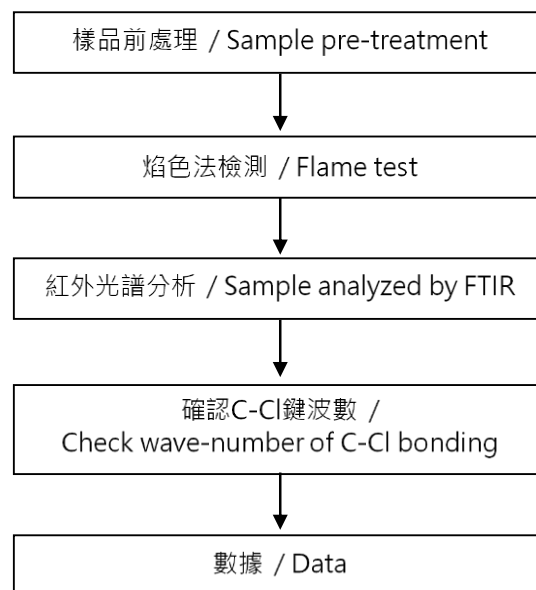
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC



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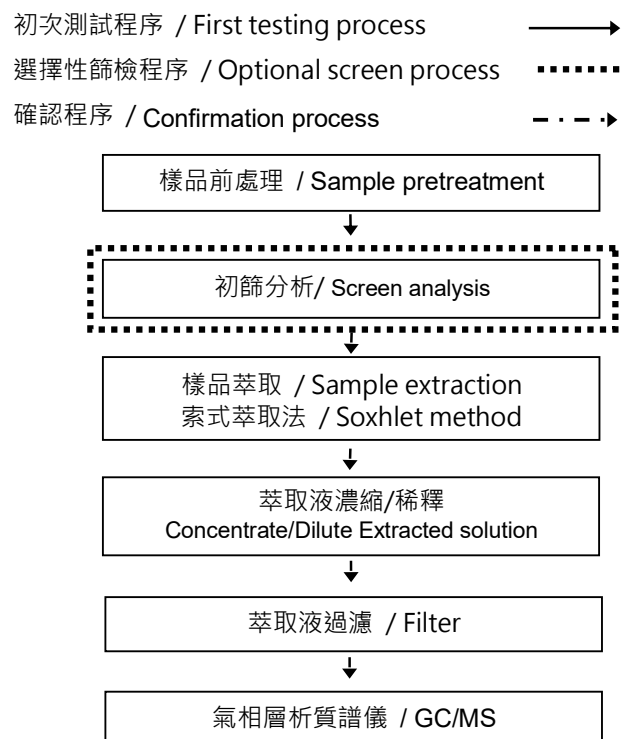
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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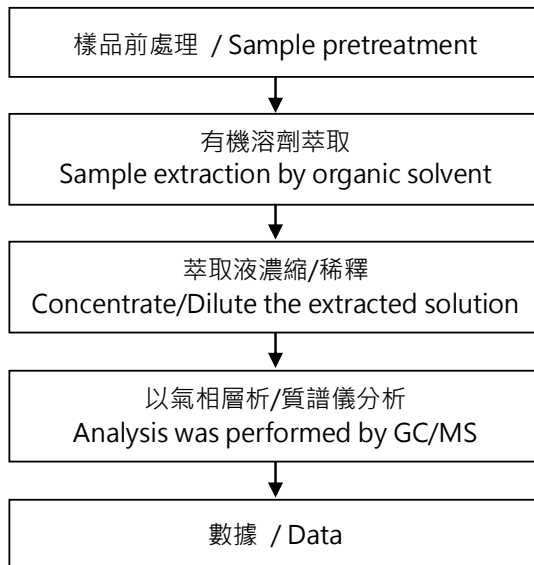
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分析流程圖 / Analytical flow chart

【適用於：多氯聯苯、多氯奈、多氯三聯苯、滅蟻靈、氯化石蠟、DBBT】

*Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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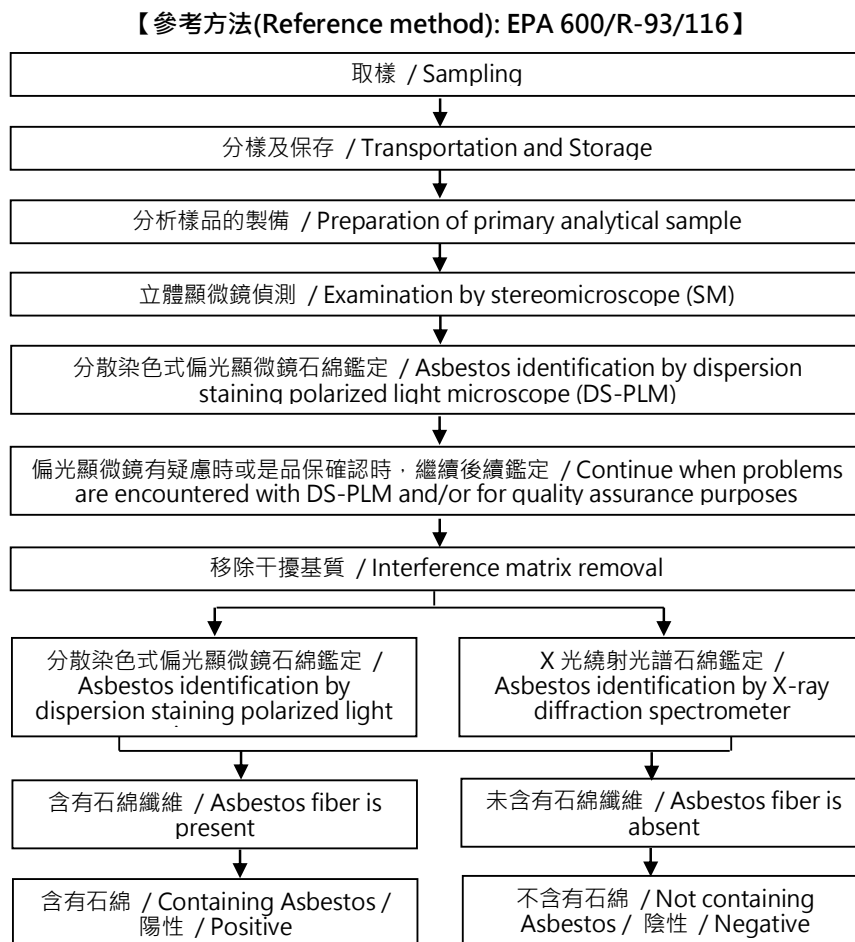
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石綿鑑定分析流程圖 / Analysis flow chart for determination of Asbestos



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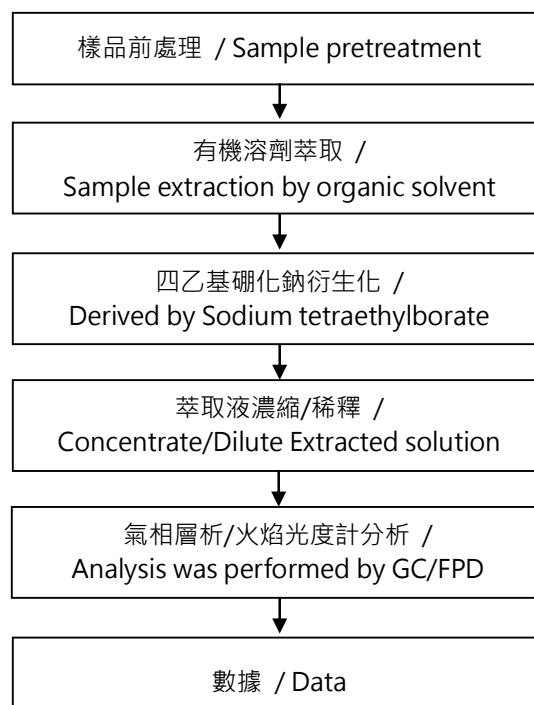
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有機錫分析流程圖 / Analytical flow chart - Organic-Tin



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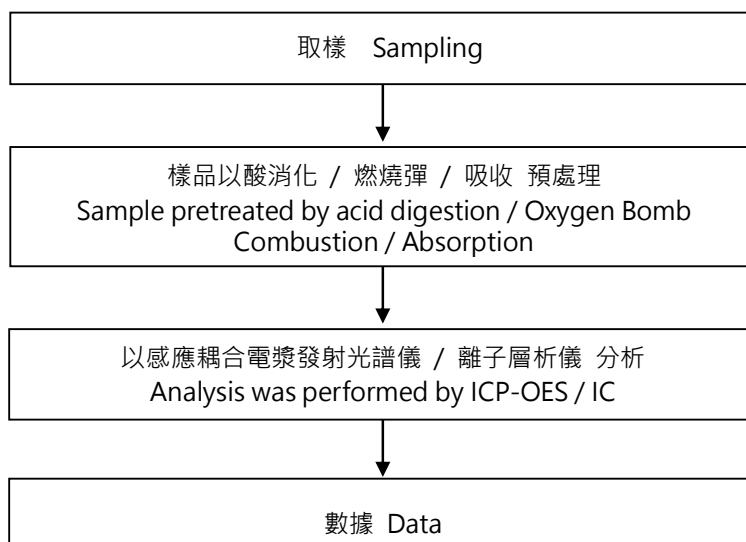
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二氯化鈷分析流程圖 / Analytical flow chart - Cobalt dichloride



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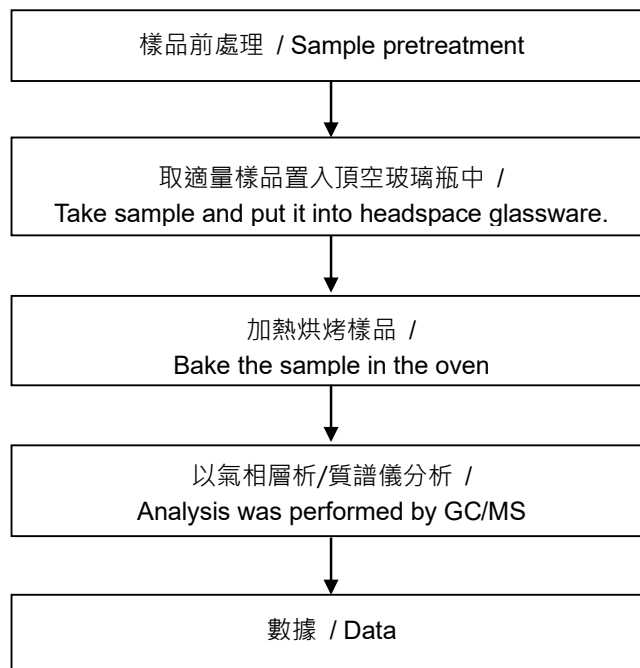
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揮發性有機化合物分析流程圖 /
Analytical flow chart of volatile organic compounds (VOCs)

【參考方法/Reference method : US EPA 5021A】



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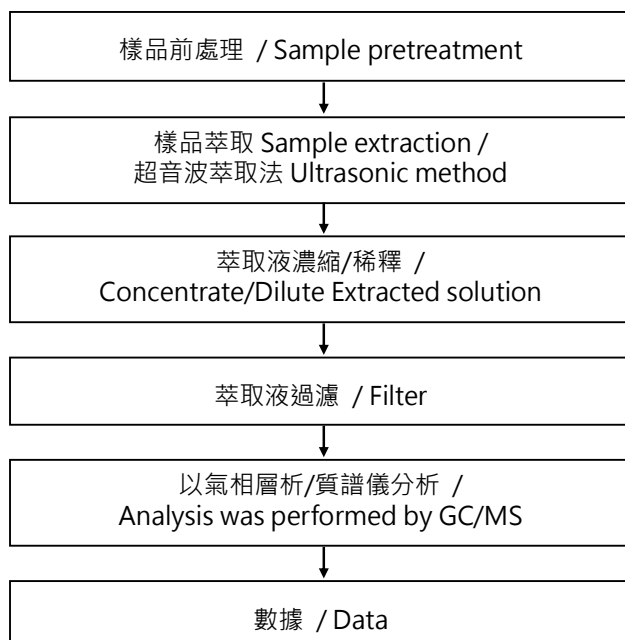
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分析流程圖 / Analytical flow chart

* 適用於 / Apply to: 富馬酸二甲酯(DMFU)、六溴環十二烷(HBCDD)、乙二醇醚及其酯類(Ethylene glycol ether) 、有機磷化合物(Organic phosphorus compounds)、BNST



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Test Report

號碼(No.): ETR23703796

日期(Date): 24-Jul-2023

頁數(Page): 29 of 31

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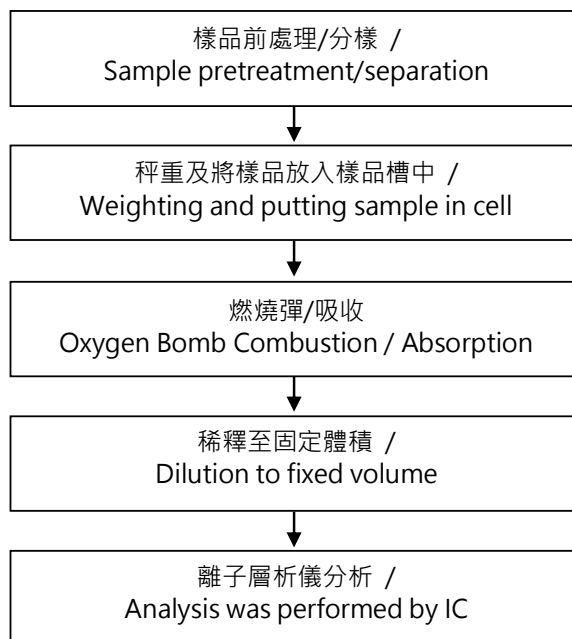
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鹵素分析流程圖 / Analytical flow chart - Halogen



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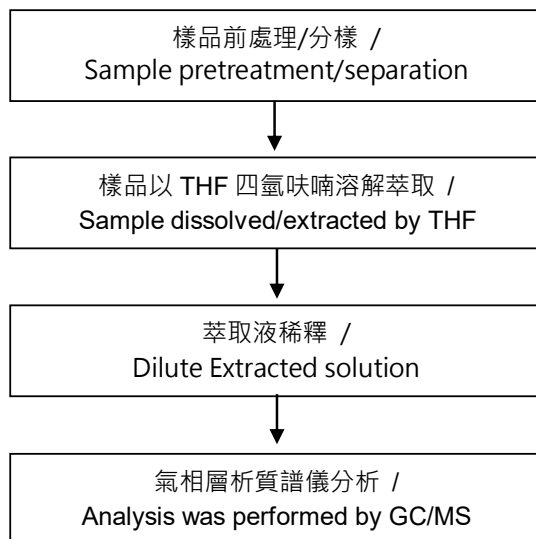
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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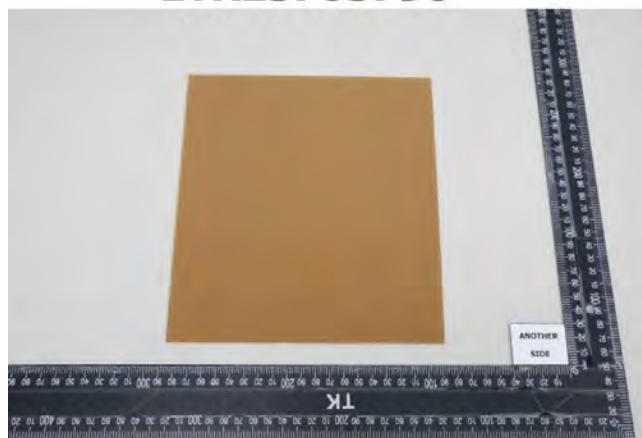
* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

ETR23703796



ETR23703796



** 報告結尾 (End of Report) **

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Test Report

No.: CANEC24009066011

Date: May 11, 2024

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Client Name: SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

Client Address: WOER INDUSTRIAL PARK, LANJING NORTH ROAD, LONGTIAN STREET, PINGSHAN DISTRICT, SHENZHEN, GUANGDONG.

Sample Name: DUAL WALL HEAT-SHRINKABLE TUBE (red, yellow, blue, green, transparent)

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

SGS Job No.: SZP24-018889

Sample Receiving Date: May 06, 2024

Testing Period: May 06, 2024 ~ May 11, 2024

Test Requested: Select 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).

Test Requirement	Conclusion
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	See Results

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

Violet Shi

Violet Shi

Approved Signatory



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No.: CANEC24009066011

Date: May 11, 2024

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A6	CAN24-0090660-0001.C006	Red plastic tube+Yellow plastic tube+Blue plastic tube+Green plastic tube+Colorless transparent plastic tube

Remarks:

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

Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), 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+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Unit(s)	MDL	A6
Lead (Pb)	mg/kg	2	5
Mercury (Hg)	mg/kg	2	ND
Cadmium (Cd)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND
Polybromobiphenyl (PBB)	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	mg/kg	5	ND
Polybromodiphenyl ether (PBDE)	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	mg/kg	5	ND



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Test Report

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Test Item(s)	Unit(s)	MDL	A6
Octabrominated diphenyl ether (OctaBDE)	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND
Dibutyl phthalate (DBP)	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	mg/kg	50	ND

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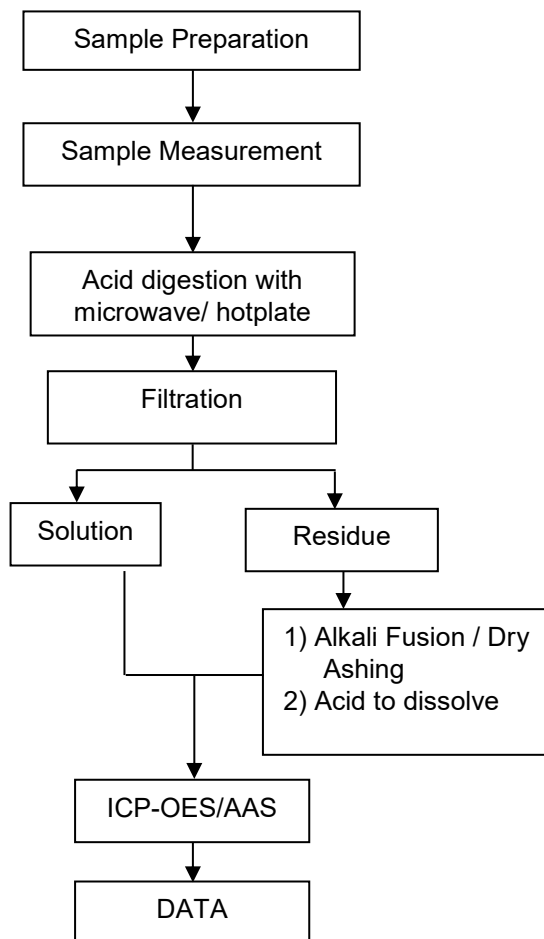
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Elements Testing Flow Chart

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



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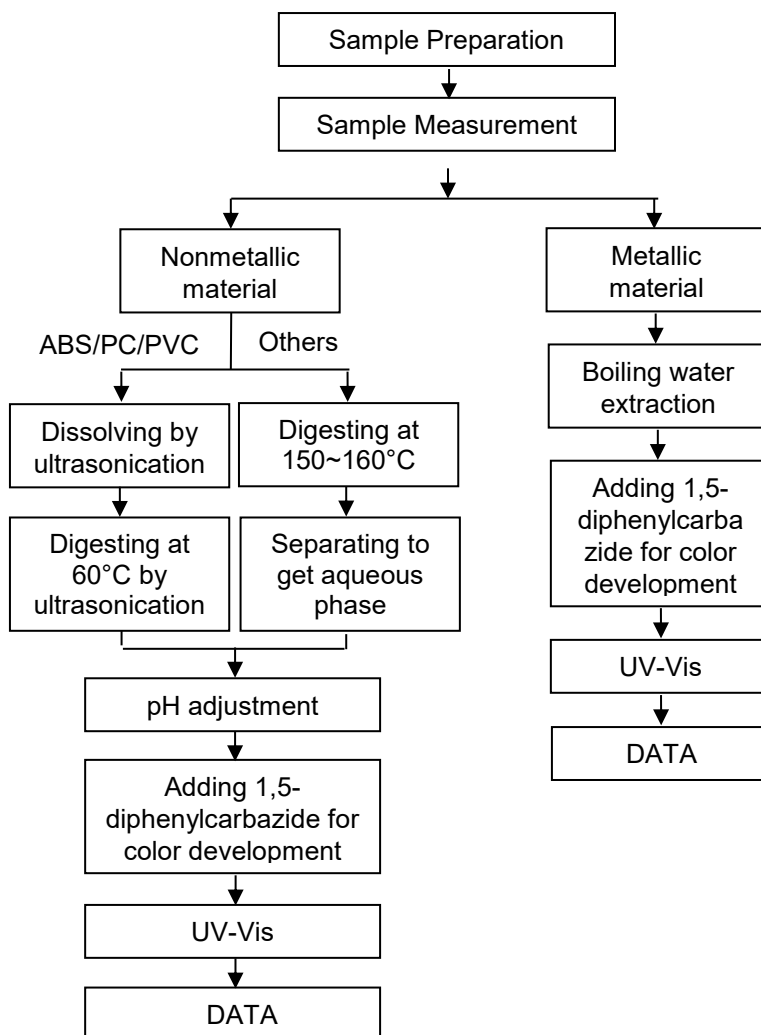
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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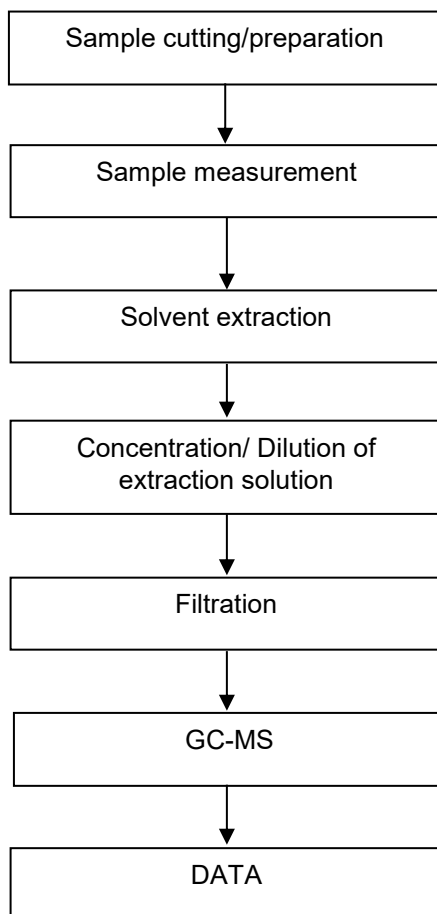
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PBB/PBDE Testing Flow Chart



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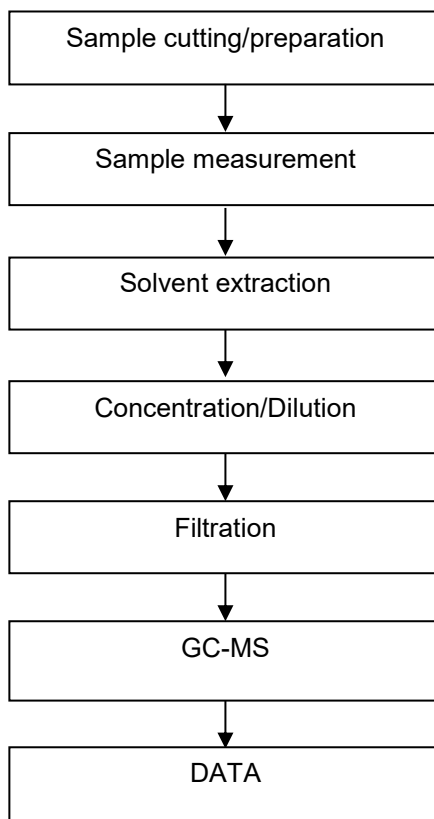
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Phthalates Testing Flow Chart



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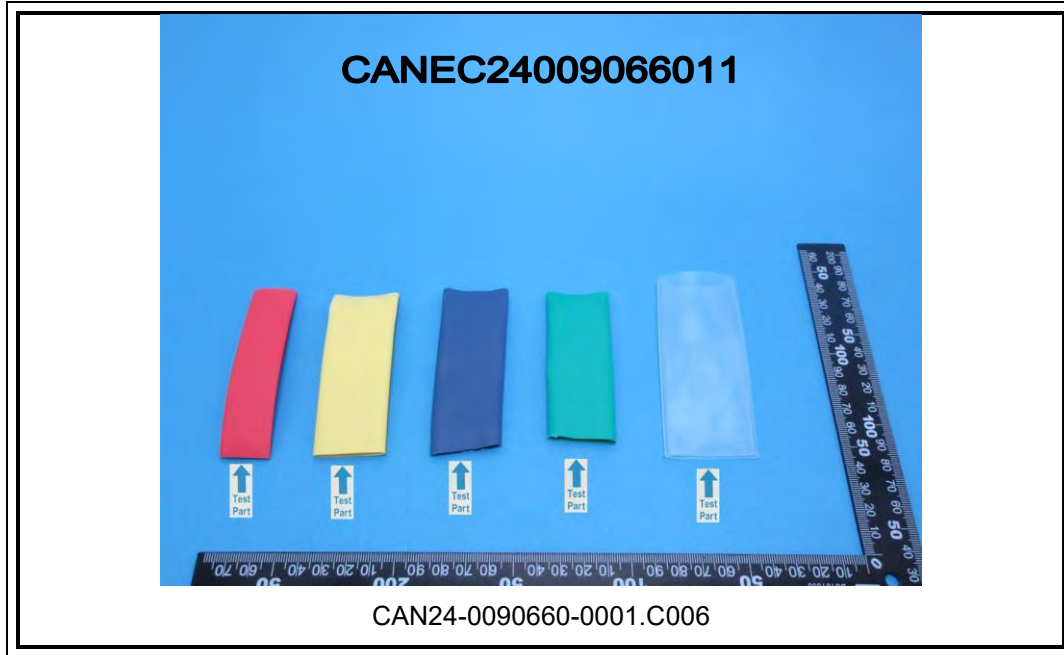
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Sample Photo:



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測試報告

Test Report

號碼(No.): ETR23204607

日期(Date): 24-Feb-2023

頁數(Page): 1 of 16

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樣品名稱(Sample Name) : COAXIAL CABLE
樣品型號(Style/Item No.) : 請參考第2頁 (PLEASE REFER TO PAGE 2)

收件日(Sample Receiving Date) : 16-Feb-2023
測試期間(Testing Period) : 16-Feb-2023 to 21-Feb-2023

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.)

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.)


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



PIN CODE: 98033467

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

樣品型號(Style/Item No.) :

網路線、網路線+Y、同軸線+網路線+Y、同軸線+網路線、同軸線+控制線+Y、
網路線+控制線+Y、控制線+Y、同軸線+控制線、控制線、1.13mm、1.32mm、
1.37mm、UL1007、1.5C-2V、1.5C-2VS、1.5C-2VS FPE、2.5C-2V、3C-2V、
5C-2V、0.8D-2V、0.8D-2VS、1.5D-2V、1.5D-2VS、1.5D-QEHV、1.5D-QEHB、
1.5D-HQEW、2D-2V、3D-2V、5D-2V、1.5C-FB、3C-FB、4C-FB、5C-FB、
5C-FV、3D-FB、5D-FB、RG-174/U、RG-178B/U、RG-179、RG-316、RG-316E、
RG-316/U、RG-58/U、RG-58A/U、RG-58C/U、RG-58U LOW LOSS、
RG-58A/U LOW LOSS、RG-223/U、RG-59B/U、RG-59/U、RG-62/U、
RG-62A/U、RG-63B/U、RG-6/U、NFC-100、NFC-195、NFC-200、NFC-240、
H155、DDF370、YE50、BT3002、BT2003、SKB 75、LOW LOSS、LL58、
URM76、D5C-133、D5C-145、D5C-146、5P3-30B、5P3-46B、7C-2V、
10C-2V、8D-2V、10D-2V、7C-FB、8D-FB、10D-FB、RG-8X、RG-8/U、
RG-8A/U、RG-11/U、RG-213/U、RG-214/U、NFC-300、NFC-400、
NFC-500、H-1000

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

- No.1 : 白色塑膠外被 #1 (WHITE PLASTIC JACKET)
No.2 : 棕色塑膠外被 #2 (BROWN PLASTIC JACKET)
No.3 : 黑色塑膠外被及其上白色印刷 #5 (BLACK PLASTIC JACKET WITH WHITE PRINTED)
No.4 : 藍色塑膠外被及其上黑色印刷 #7 (BLUE PLASTIC JACKET WITH BLACK PRINTED)
No.5 : 灰色塑膠外被及其上黑色印刷 #10 (GRAY PLASTIC JACKET WITH BLACK PRINTED)

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	No.2	No.3	
鎘 (Cd) (Cadmium (Cd))	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.	n.d.	n.d.	100
鉛 (Pb) (Lead (Pb))		mg/kg	2	n.d.	n.d.	n.d.	1000
汞 (Hg) (Mercury (Hg))	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.	n.d.	n.d.	1000
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	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.	n.d.	n.d.	1000

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)			限值 (Limit)
				No.1	No.2	No.3	
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.	n.d.	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	n.d.	n.d.	1000
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	n.d.	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	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.	n.d.	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	n.d.	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	n.d.	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	n.d.	n.d.	1000

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)			限值 (Limit)
				No.1	No.2	No.3	
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.)	mg/kg	0.01	n.d.	n.d.	n.d.	-
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	n.d.	n.d.	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 62321-9: 2021 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.)	mg/kg	20	n.d.	n.d.	n.d.	-

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)		限值 (Limit)
				No.4	No.5	
鎘 (Cd) (Cadmium (Cd))	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.	n.d.	100
鉛 (Pb) (Lead (Pb))		mg/kg	2	n.d.	n.d.	1000
汞 (Hg) (Mercury (Hg))	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.	n.d.	1000

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桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)		限值 (Limit)
				No.4	No.5	
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	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.	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.	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	n.d.	1000
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	n.d.	1000

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)		限值 (Limit)
				No.4	No.5	
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	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.	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	n.d.	1000
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.)	mg/kg	0.01	n.d.	n.d.	-
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	n.d.	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 62321-9: 2021 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.)	mg/kg	20	n.d.	n.d.	-

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測試報告

Test Report

號碼(No.): ETR23204607

日期(Date): 24-Feb-2023

頁數(Page): 8 of 16

良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

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. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including) :
CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
6. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including) :
CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.
7. 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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測試報告

Test Report

號碼(No.): ETR23204607

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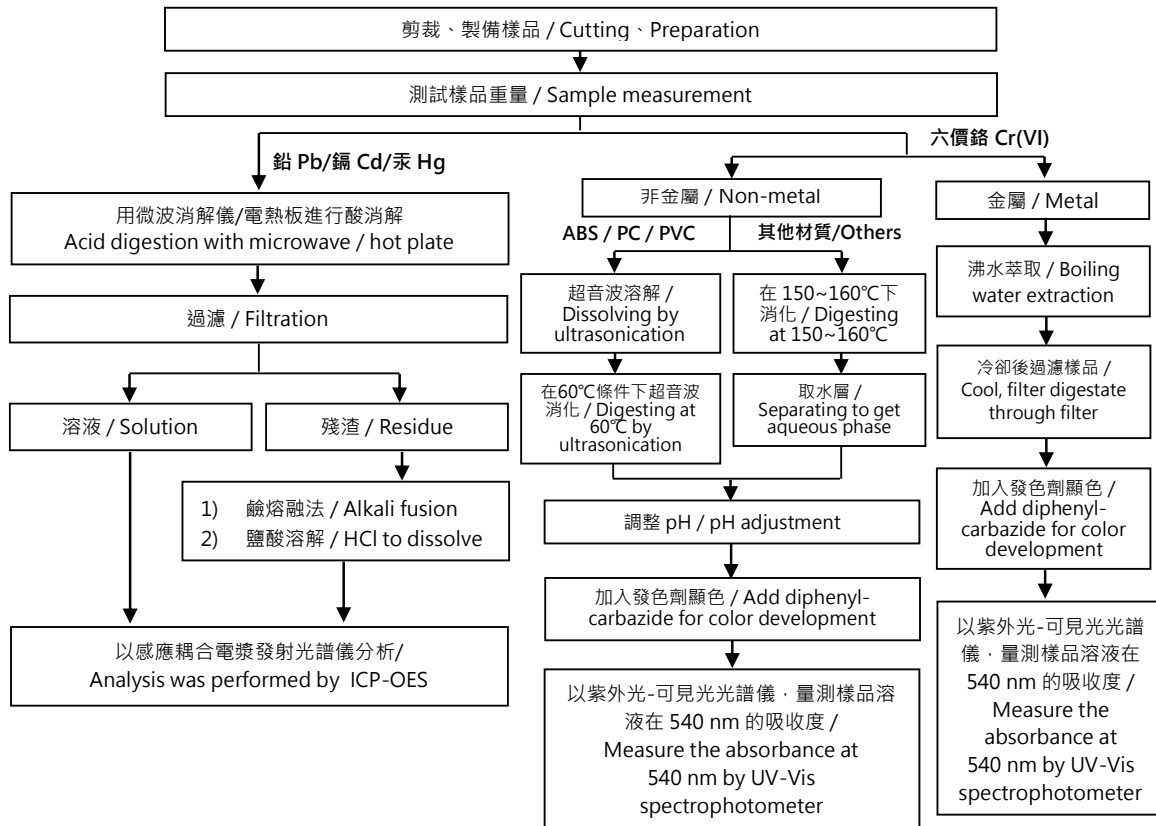
良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

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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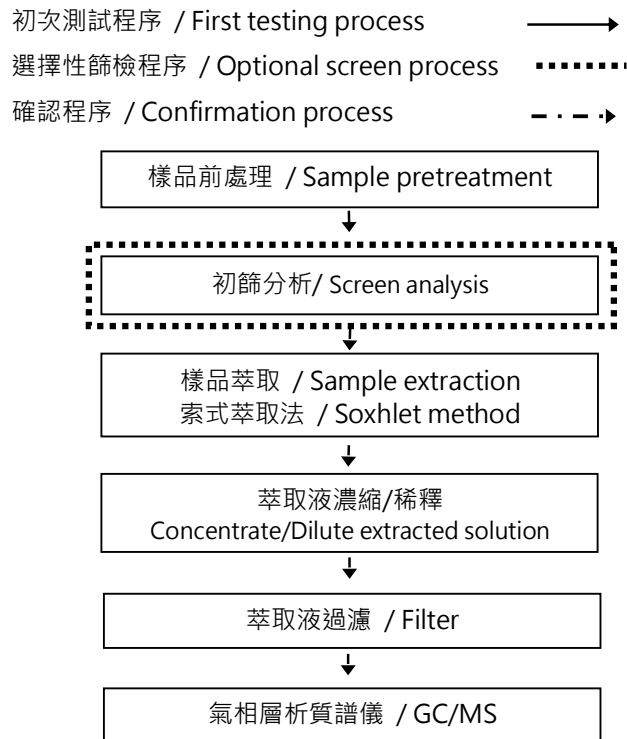
日期(Date): 24-Feb-2023

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桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST.,
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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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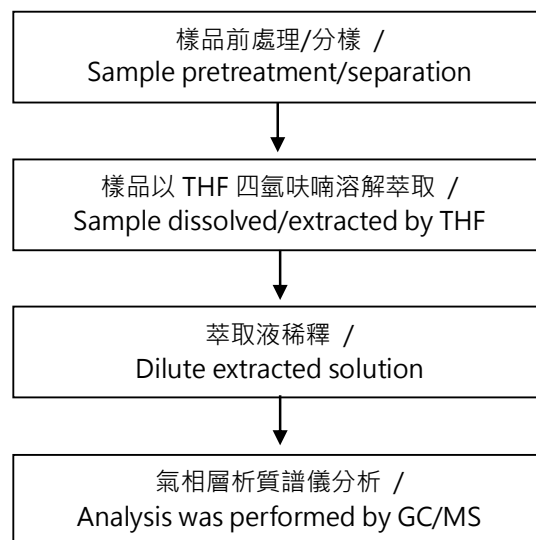
頁數(Page): 11 of 16

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桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST.,
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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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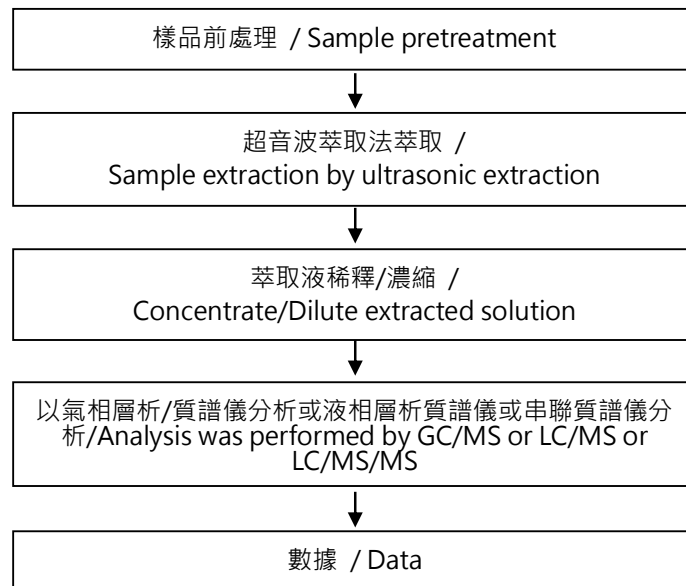
日期(Date): 24-Feb-2023

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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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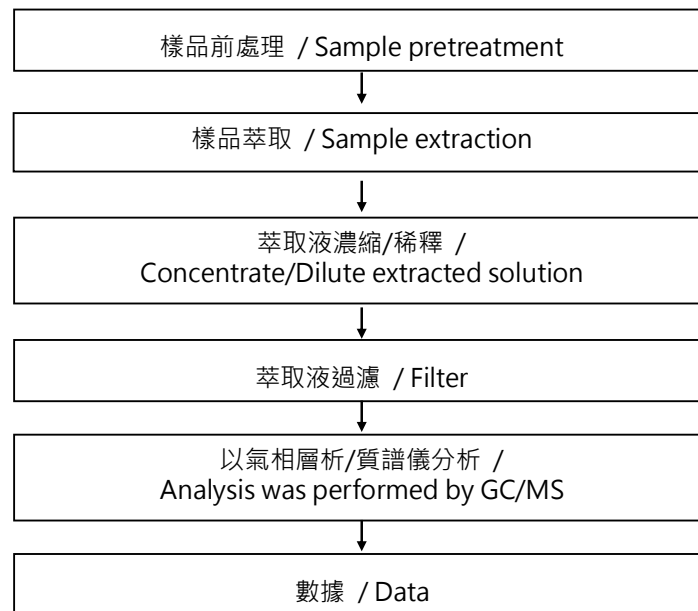
日期(Date): 24-Feb-2023

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



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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

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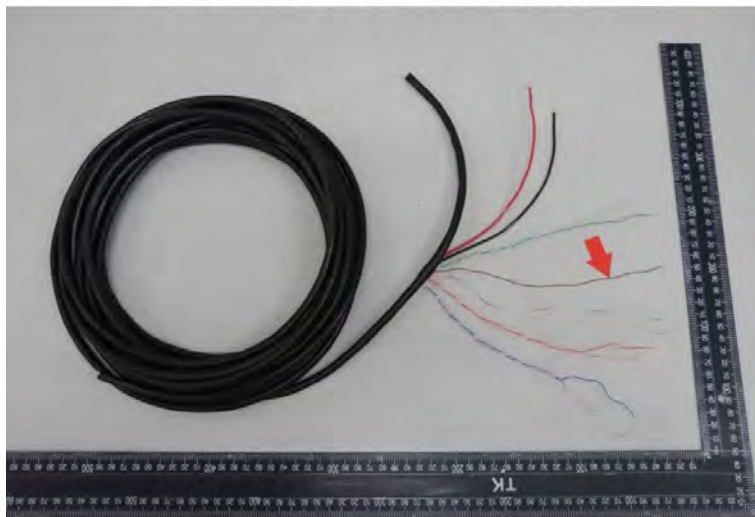
* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

ETR23204607 NO.1



ETR23204607 NO.2



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測試報告

Test Report

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST.,
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ETR23204607 NO.3



ETR23204607 NO.4



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測試報告

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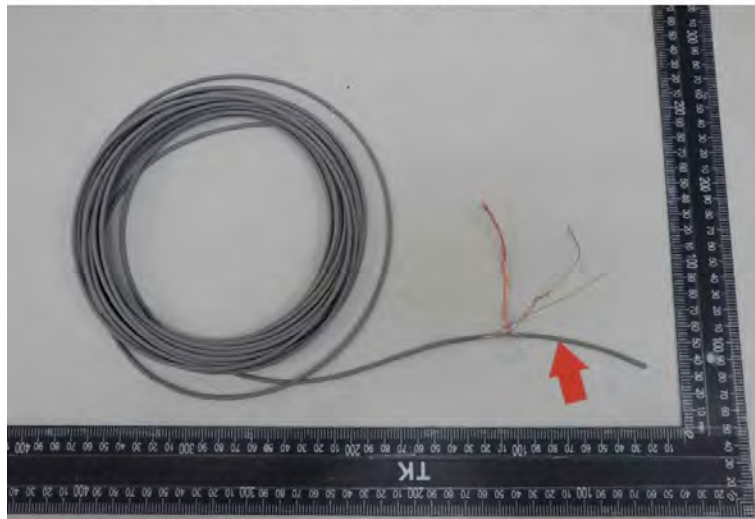
日期(Date): 24-Feb-2023

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

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ETR23204607 NO.5



** 報告結尾 (End of Report) **

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST.,
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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) : 良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

樣品名稱(Sample Name) : COAXIAL CABLE

樣品型號(Style/Item No.) : 請參考第2頁 (PLEASE REFER TO PAGE 2)

收件日(Sample Receiving Date) : 16-Feb-2023

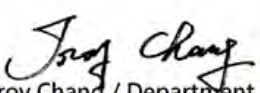
測試期間(Testing Period) : 16-Feb-2023 to 21-Feb-2023

測試需求(Test Requested) : (1) 依據客戶指定，參考RoHS指令2011/65/EU Annex II測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚。(As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample(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.)

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、多溴聯苯醚的測試結果符合RoHS 2011/65/EU Annex II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 comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)


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



PIN CODE: CB29E1BA

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桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

樣品型號(Style/Item No.) :

網路線、網路線+Y、同軸線+網路線+Y、同軸線+網路線、同軸線+控制線+Y、
網路線+控制線+Y、控制線+Y、同軸線+控制線、控制線、1.13mm、1.32mm、
1.37mm、UL1007、1.5C-2V、1.5C-2VS、1.5C-2VS FPE、2.5C-2V、3C-2V、
5C-2V、0.8D-2V、0.8D-2VS、1.5D-2V、1.5D-2VS、1.5D-QEHV、1.5D-QEHB、
1.5D-HQEW、2D-2V、3D-2V、5D-2V、1.5C-FB、3C-FB、4C-FB、5C-FB、
5C-FV、3D-FB、5D-FB、RG-174/U、RG-178B/U、RG-179、RG-316、RG-316E、
RG-316/U、RG-58/U、RG-58A/U、RG-58C/U、RG-58U LOW LOSS、
RG-58A/U LOW LOSS、RG-223/U、RG-59B/U、RG-59/U、RG-62/U、
RG-62A/U、RG-63B/U、RG-6/U、NFC-100、NFC-195、NFC-200、NFC-240、
H155、DDF370、YE50、BT3002、BT2003、SKB 75、LOW LOSS、LL58、
URM76、D5C-133、D5C-145、D5C-146、5P3-30B、5P3-46B、7C-2V、
10C-2V、8D-2V、10D-2V、7C-FB、8D-FB、10D-FB、RG-8X、RG-8/U、
RG-8A/U、RG-11/U、RG-213/U、RG-214/U、NFC-300、NFC-400、
NFC-500、H-1000

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

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測試部位敘述 (Test Part Description)

- No.1 : 銀色鋁箔 #3 (SILVER COLORED ALUMINUM FOIL)
No.2 : 銀色金屬 #4 (SILVER COLORED METAL)
No.3 : 銀色金屬 #6 (SILVER COLORED METAL WIRE)

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	No.2	No.3	
鎘 (Cd) (Cadmium (Cd))	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.	n.d.	n.d.	100
鉛 (Pb) (Lead (Pb))		mg/kg	2	n.d.	n.d.	n.d.	1000
汞 (Hg) (Mercury (Hg))	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.	n.d.	n.d.	1000
六價鉻 (Hexavalent Chromium) Cr(VI) (#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.	n.d.	n.d.	-
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.	n.d.	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	n.d.	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	n.d.	n.d.	1000

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測試報告

Test Report

號碼(No.): ETR23204606

日期(Date): 24-Feb-2023

頁數(Page): 4 of 10

良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)			限值 (Limit)
				No.1	No.2	No.3	
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.	n.d.	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	n.d.	n.d.	1000
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.)	mg/kg	0.01	n.d.	n.d.	n.d.	-
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	n.d.	n.d.	n.d.	-

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. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including) :
CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
6. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including) :
CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.

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測試報告

Test Report

號碼(No.): ETR23204606

日期(Date): 24-Feb-2023

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

7. (#2) =

- 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).)
 - 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)
 - 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.)
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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測試報告

Test Report

號碼(No.): ETR23204606

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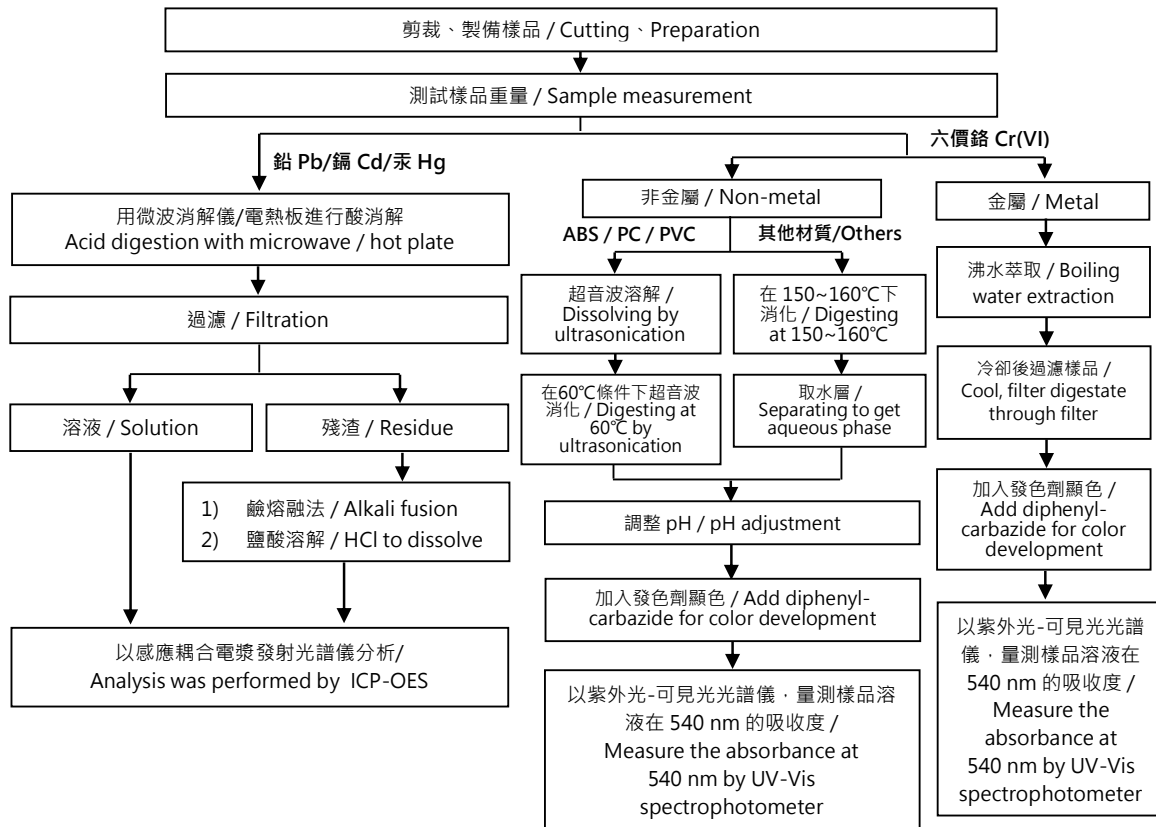
良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

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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測試報告

Test Report

號碼(No.): ETR23204606

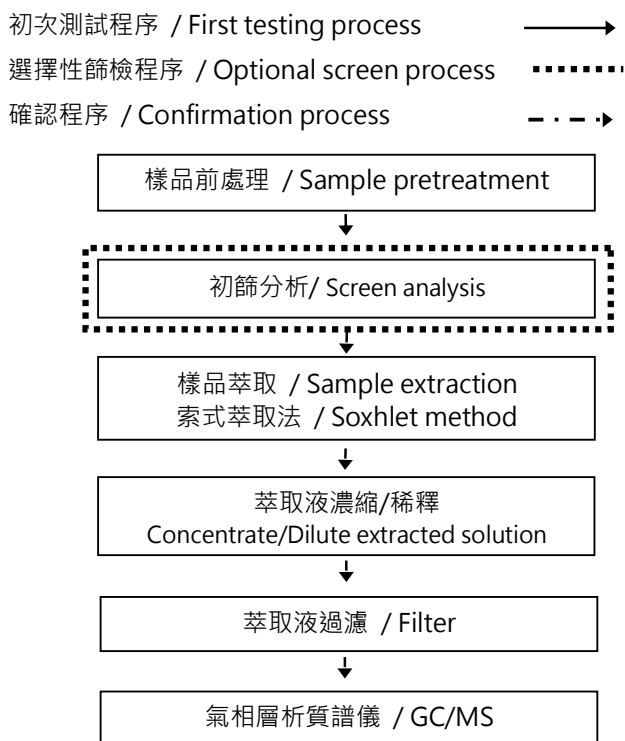
日期(Date): 24-Feb-2023

頁數(Page): 7 of 10

良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST.,
TAOYUAN CITY 324, TAIWAN (R.O.C.))

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



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測試報告

Test Report

號碼(No.): ETR23204606

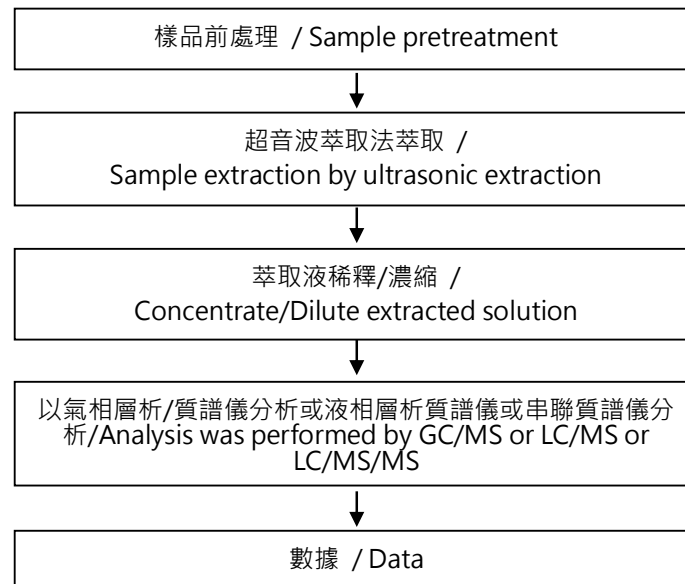
日期(Date): 24-Feb-2023

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST., TAOYUAN CITY 324, TAIWAN (R.O.C.))

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

號碼(No.): ETR23204606

日期(Date): 24-Feb-2023

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良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST.,
TAOYUAN CITY 324, TAIWAN (R.O.C.))

* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

ETR23204606 NO.1



ETR23204606 NO.2



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測試報告

Test Report

號碼(No.): ETR23204606

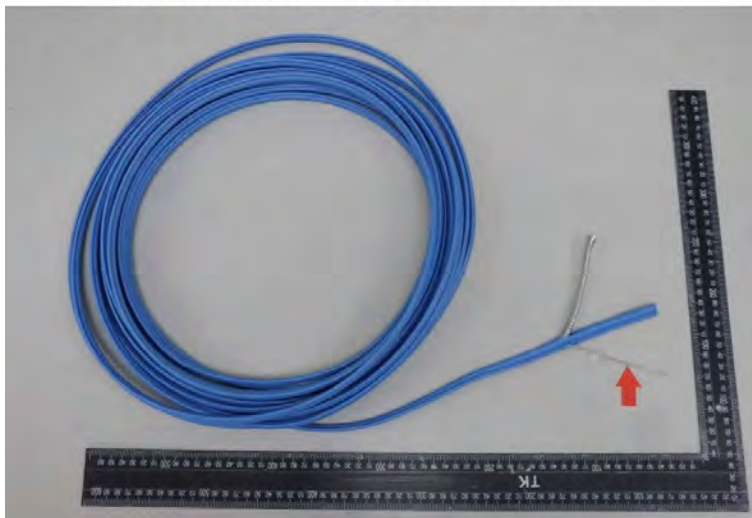
日期(Date): 24-Feb-2023

頁數(Page): 10 of 10

良泉工業股份有限公司 (NICE FOUNTAIN INDUSTRIAL CO., LTD.)

桃園市平鎮區中豐路南勢二段460巷126號 (NO. 126, LN. 460, NANSHI SEC. 2, ZHONGFENG RD., PINGZHEN DIST.,
TAOYUAN CITY 324, TAIWAN (R.O.C.))

ETR23204606 NO.3



** 報告結尾 (End of Report) **

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測試報告

Test Report

號碼(No.): EKR22C02501

日期(Date): 06-Jan-2023

頁數(Page): 1 of 6

昇鋁實業股份有限公司 (SEN CHANG INDUSTRIAL CO.,LTD)

桃園市大園區南港里長發路238號 (NO.238, CHANGFA RD., DAYUAN DIST., TAOYUAN CITY 33759, TAIWAN (R.O.C.))

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

送樣廠商(Sample Submitted By) : 昇鋁實業股份有限公司 (SEN CHANG INDUSTRIAL CO.,LTD)
樣品名稱(Sample Name) : SUS 不銹鋼線
樣品型號(Style/Item No.) : 304J3

收件日(Sample Receiving Date) : 29-Dec-2022
測試期間(Testing Period) : 29-Dec-2022 to 06-Jan-2023

測試需求(Test Requested) : 依據客戶指定，參考RoHS指令2011/65/EU Annex II測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚。(As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample(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、多溴聯苯醚的測試結果符合RoHS 2011/65/EU Annex II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 comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)

報告簽署人/張伯章 博士/部
Ray Chang, Ph.D./ Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
化學實驗室-高雄/Chemical Laboratory-Kaohsiung



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測試報告

Test Report

號碼(No.): EKR22C02501

日期(Date): 06-Jan-2023

頁數(Page): 2 of 6

昇鋁實業股份有限公司 (SEN CHANG INDUSTRIAL CO.,LTD)

桃園市大園區南港里長發路238號 (NO.238, CHANGFA RD., DAYUAN DIST., TAOYUAN CITY 33759, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 銀色金屬 (SILVER COLORED METAL)

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	n.d.	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 (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.	-
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.): EKR22C02501

日期(Date): 06-Jan-2023

頁數(Page): 3 of 6

昇鋁實業股份有限公司 (SEN CHANG INDUSTRIAL CO.,LTD)

桃園市大園區南港里長發路238號 (NO.238, CHANGFA RD., DAYUAN DIST., TAOYUAN CITY 33759, TAIWAN (R.O.C.))

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

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

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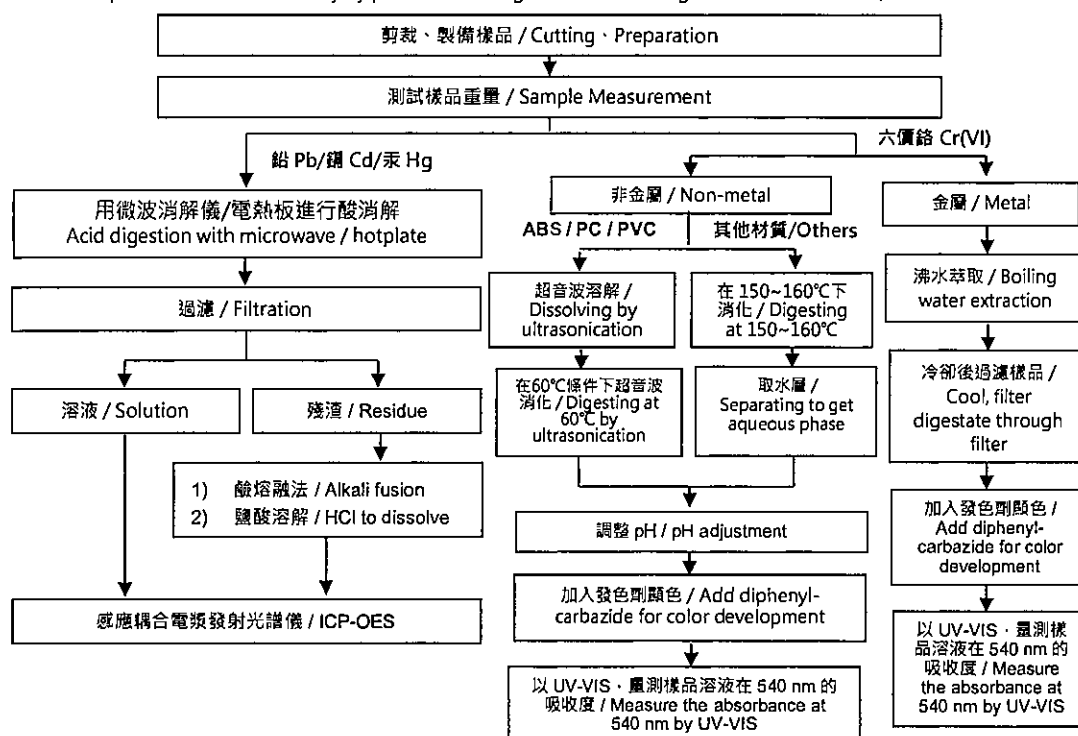
昇鋁實業股份有限公司 (SEN CHANG INDUSTRIAL CO.,LTD)

桃園市大園區南港里長發路238號 (NO.238, CHANGFA RD., DAYUAN DIST., TAOYUAN CITY 33759, TAIWAN (R.O.C.))

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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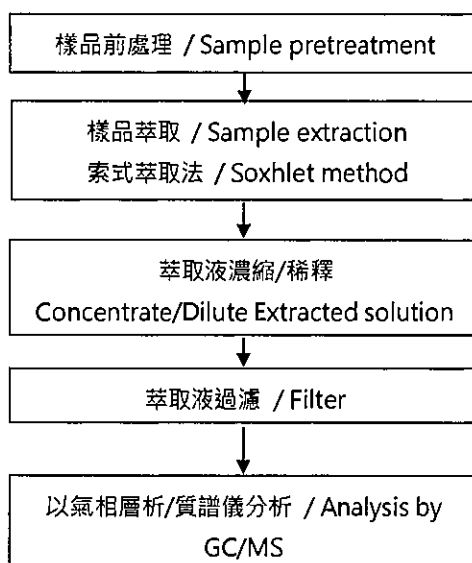
日期(Date): 06-Jan-2023

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昇鋁實業股份有限公司 (SEN CHANG INDUSTRIAL CO.,LTD)

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



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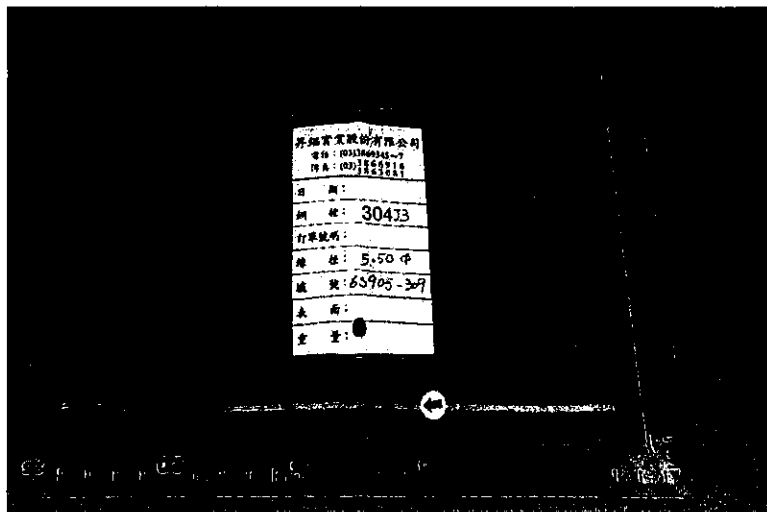
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

EKR22C02501



** 報告結尾 (End of Report) **

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