

設計驗證
工程課
2024-07-31
發行
鈺鐘科技開發股份有限公司



設計驗證
工程課
2024 -07- 31
發行
鑫鋒科技開發股份有限公司

勇發塑膠股份有限公司

地址:桃園市龜山區萬壽路二段 342 巷 3 號
電話: (03)319-2299

零件承認書

SPECIFICATION FOR APPROVAL

公司名稱 COMPANY	鈺緯科技開發股份有限公司
品名 PART NAME	BEZEL (OPTIK VIEW,21.3",5M,5816)
料號 PART NO	3MD180PA050(M2429)

邱華財	高全財	李祖延
(工程部主管)	(業務部主管)	(承辦人員)

日期(DATE): 7 月(MONTH): 1 日(DAY): 113 年(YEAR)

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鈺緯科技開發股份有限公司

REV.	DATE	DESCRIPTION	BY	APVD
1	20181129	刪除機構尺寸標註	JANE	

設計驗證
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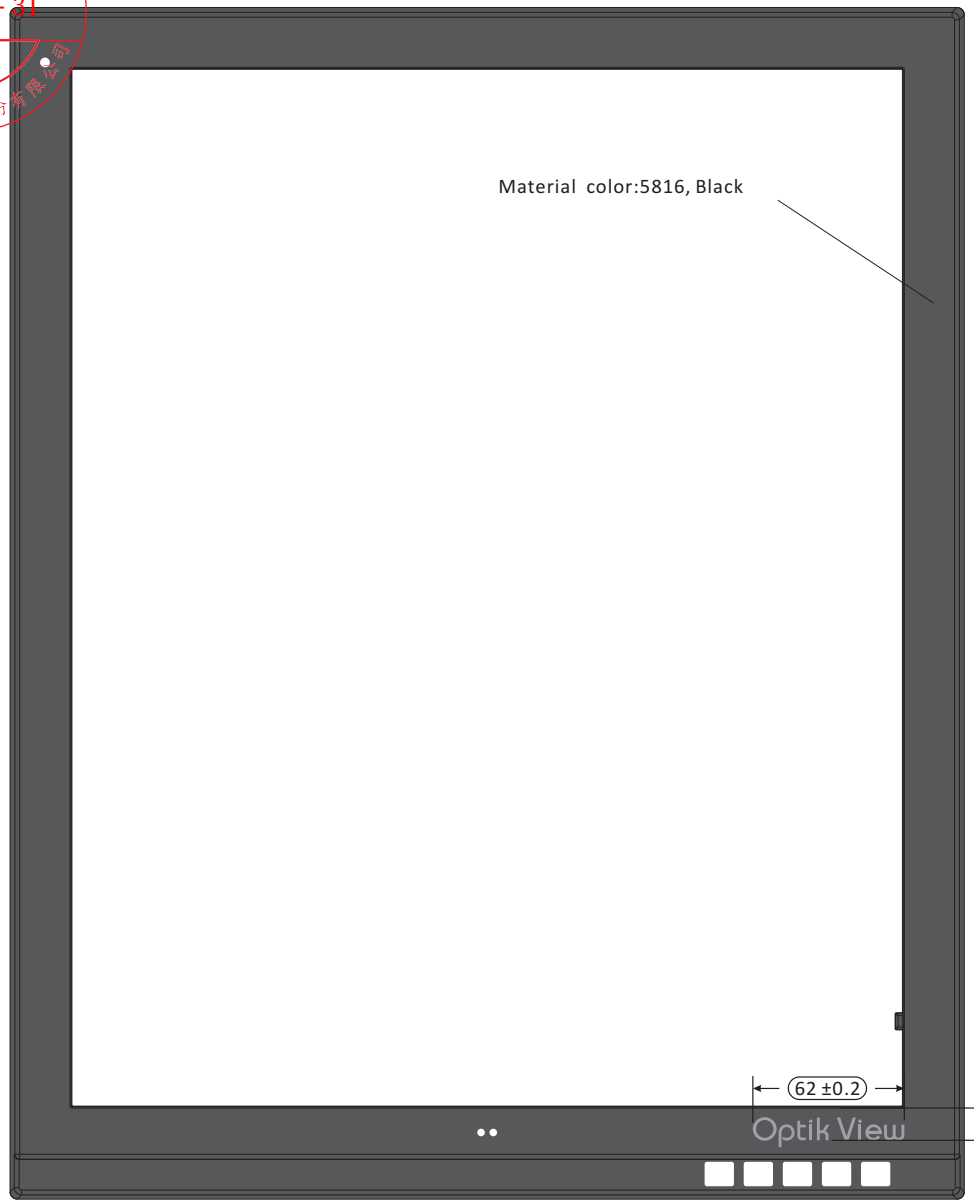
[illegible]科技開發股份有限公司



Printing Artwork

1:1

Optik View

2:1

Optik View

Printing Color: PANTONE Cool Gray 8 C

Note:

1.顏色參照承認樣品
2. 檢驗規範文件編號: QWI-020

THIRD ANGLE PROJECTION	UNITS: mm	SCALE: 1/1	SHEET: 1/1	MODEL NO.: DM21510
	MATERIAL:		TREATMENT:	
DSGD by JANE	2018/11/29	PART NAME: BEZEL (ZSP2105CMI)		
APVD by		PART NO.: 3MD180PA050		VER. 1
APVD NO.: M2429	FILE NAME: 3MD180PA050.cdr	DIVA Laboratories ,Ltd.		

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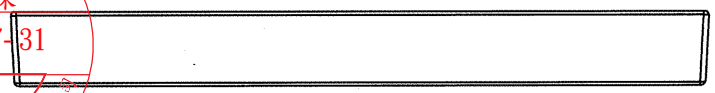
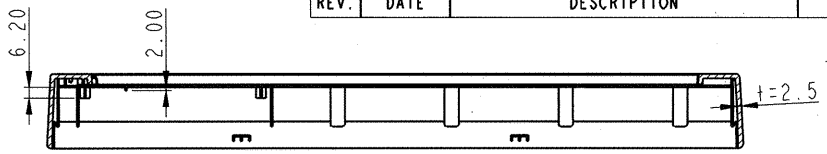
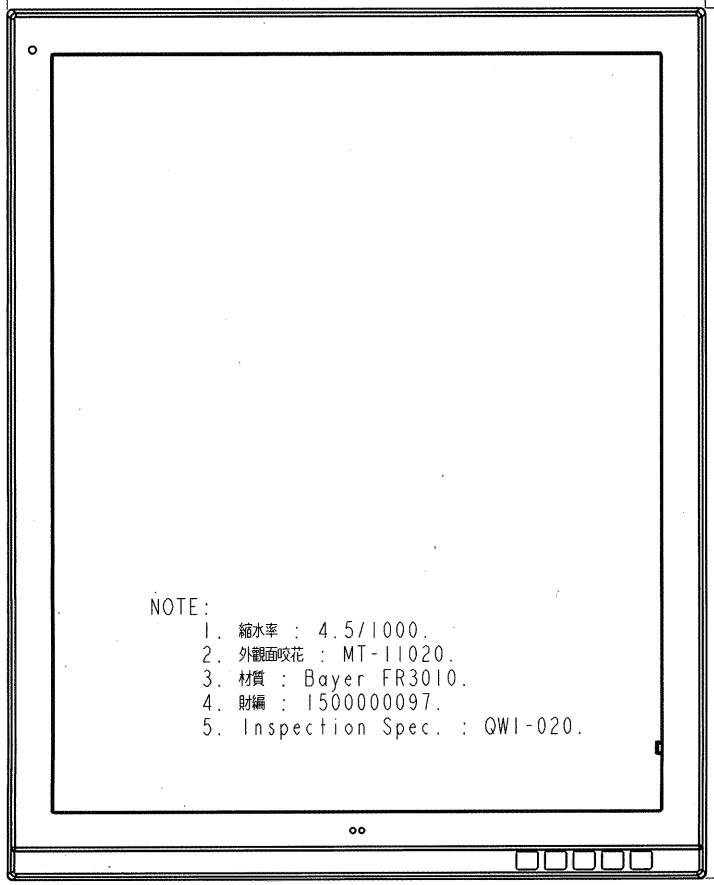
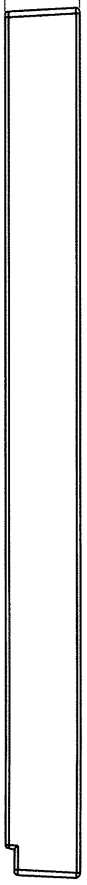
REV.	DATE	DESCRIPTION	BY	APPD

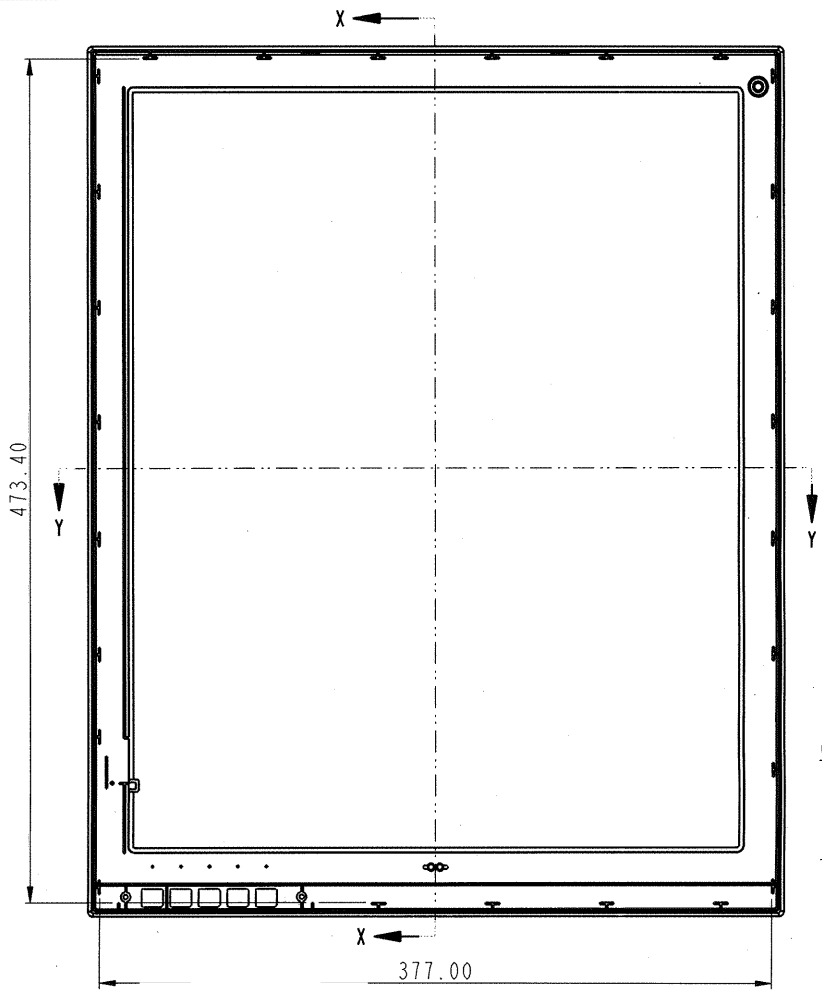


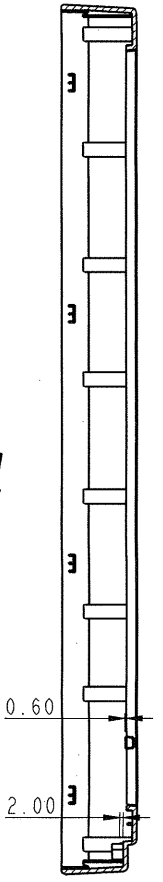


SECTION Y-Y



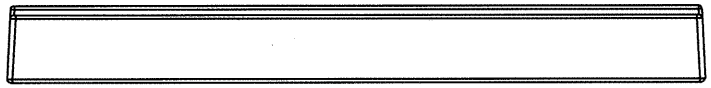






SECTION X-X

NOTE:
1. 縮水率 : 4.5/1000.
2. 外觀面皎花 : MT-11020.
3. 材質 : Bayer FR3010.
4. 財編 : 1500000097.
5. Inspection Spec. : QWI-020.



Item	Part Number	Resin Color	Painting Color	Logo Printing	Used On	Remark
1	3MD180PA010	Black	Black-5816	None	ZSP2105CMI	
2	3MD180PA030	Black	Black-5816	MOZO	MDM21(5M)	
3	3MD180PA040	Black	Black-5816	LM紀光	LM22T21305M	
4	3MD180PA050	Black	Black-5816	Optik View	DM21510	

THIRD ANGLE PROJECTION	UNITS: mm	SCALE: 1/1	SHEET: 1 OF 1	MODEL NO.: ZSP2105CMI	
	MATERIAL: PC+ABS		TREATMENT: texture		
DSGD by: Watt Lin	20-May-16	PART NAME: BEZEL			
APPD by: Watt	6/1	PART NO.: See Notes		VER. 0	
APPD NO.: M2429	FILE NAME: ZSP2105_BEZEL	DMA Laboratories, Ltd.			

Test Result	

DIVA FAI DATA SHEET

	Part Number : 3MD180PA050 (M2429)	Supplier : 勇發塑膠股份有限公司	Date: 113/07/01	
	Part Description : BEZEL		Cavity / Tool # :	
	Revision :	Material Spec: C6600	Inspector: JACK LEE	

MOI-Method of inspection abbreviation: HG = Height gauge, MIC = Micrometer, DC = Dial Caliper, P = Protractor, OC = Optical Comparator, CG = Checking Gauge, CMM = Coordinate Measuring Machine,
OMM = Optical Coordinate Measuring Machine, HT = Hardness Trester, TG = Thickness Gauge, VIS = Visual, PG = Plug Gauge,
OTHER:

DRAWING SPECIFICATIONS						INSPECTION RESULTS							INSPECTION ANALYSIS					
						Sample Number							% Tolerance		Alert/Rej		Supplier	RD Engineering
ITEM	LOCATION	NOMINAL	+TOL	-TOL	Method	1	2	3	1	2	3	Mean	UPPER	LOWER	HIGH	LOW	Remarks	Disposition
1	D5	**487.780**	0.30	0.30	DC	**487.920**	**487.960**	**487.950**	***0.140***	***0.180***	***0.170***	***487.943***	**60%**	**0%**				
2	B4	**390.580**	0.30	0.30	DC	**390.740**	**390.770**	**390.740**	***0.160***	***0.190***	***0.160***	***390.750***	**63%**	**0%**				
3	B6	**42.000**	0.30	0.30	HG	**42.150**	**42.110**	**42.240**	***0.150***	***0.110***	***0.240***	***42.167***	**80%**	**0%**	**Alert**			
4	C6	**0.000**	0.00	0.05	HG	**0.040**	**0.050**	**0.050**	***0.040***	***0.050***	***0.050***	***0.047***		**0%**				
5	B9	**0.000**	0.00	1.00	HG	**0.900**	**0.850**	**0.950**	***0.900***	***0.850***	***0.950***	***0.900***		**0%**				
6	D12	**0.000**	0.00	1.00	HG	**0.850**	**0.900**	**0.950**	***0.850***	***0.900***	***0.950***	***0.900***		**0%**				
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Instructions:
1.Inspector mest fillout the yellow area.
2. The table will automatically calculate the data in green area.

Cycoloy* Resin C6600

Americas: COMMERCIAL

Nonbrominated, nonchlorinated FR PC+ABS with balanced flow, impact and hydrolytic stability for a wide variety of applications including business equipment, monitors, enclosures, among others.

You may also be interested in:		
Enhanced Property	**Data Sheet**	
Improved Flow/Impact Balance	CX7211	Additonal Information
Improved Flow/Impact Balance	CX7110	Additonal Information
Improved UL Performance	CX7240	Additonal Information

TYPICAL PROPERTIES [1]	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	63	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	49	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	4	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	80	%	ASTM D 638
Tensile Modulus, 50 mm/min	3000	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	94	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2620	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	550	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	51	J	ASTM D 3763
Instrumented Impact Total Energy, -30°C	51	J	ASTM D 3763
THERMAL			
Vicat Softening Temp, Rate B/50	99	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2mm, unannealed	83	°C	ASTM D 648
HDT, 0.45 MPa, 6.4 mm, unannealed	98	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	90	°C	ASTM D 648
Relative Temp Index, Elec	80	°C	UL 746B
Relative Temp Index, Mech w/impact	70	°C	UL 746B
Relative Temp Index, Mech w/o impact	80	°C	UL 746B
PHYSICAL			
Specific Gravity	1.19	-	ASTM D 792

1) Typical values only. Variations within normal tolerances are possible for variose colours.All values are measured at least after 48 hours storage at 230C/50% relative humidity.
All properties, expect the melt volume rate are measured on injection moulded samples.
All samples are prepared according to ISO 294.

2) Only typical data for material selection purpose.Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
4) Own measurement according to UL.

Source, GMD, Last Update:07/25/2005

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SABIC Innovative Plastics™

Cycoloy* Resin C6600

Americas: COMMERCIAL

TYPICAL PROPERTIES [1]	TYPICAL VALUE	UNIT	STANDARD
PHYSICAL			
Water Absorption, 24 hours	0.11	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.4 - 0.6	%	SABIC Method
Melt Flow Rate, 260°C/2.16 kgf	21.5	g/10 min	ASTM D 1238
ELECTRICAL			
Volume Resistivity	>1.E+15	Ohm-cm	IEC 60093
Surface Resistivity, ROA	>1.E+15	Ohm	IEC 60093
Dielectric Strength, in oil, 3.2 mm	17	kV/mm	IEC 60243-1
Relative Permittivity, 50/60 Hz	2.7	-	IEC 60250
Relative Permittivity, 1 MHz	2.7	-	IEC 60250
Dissipation Factor, 50/60 Hz	0.004	-	IEC 60250
Dissipation Factor, 1 MHz	0.006	-	IEC 60250
FLAME CHARACTERISTICS			
UL Recognized, 94V-2 Flame Class Rating (3)	0.75	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94
UL Recognized, 94-5VB Rating (3)	2	mm	UL 94

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SABIC Innovative Plastics™

Cycoloy* Resin C6600

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	80 - 90	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.04	%
Melt Temperature	245 - 275	°C
Nozzle Temperature	245 - 275	°C
Front - Zone 3 Temperature	245 - 275	°C
Middle - Zone 2 Temperature	220 - 275	°C
Rear - Zone 1 Temperature	220 - 255	°C
Mold Temperature	60 - 80	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	30 - 80	%
Vent Depth	0.038 - 0.076	mm

• NOTE: Back Pressure, Screw Speed, Shot to Cylinder Size and Vent Depth are only mentioned as general guidelines. These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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安全資料表

一、化學品與廠商資料

化學品名稱：單液型塗料
其他名稱：A170-17007 黑
建議用途及限制使用： ABS、PC、ABS+PC 塑膠之表面塗裝。
製造商或供應商名稱、地址及電話：海睿企業有限公司 新北市土城區勝利街 10 巷 8 號 3 樓 (02)2268-5828
緊急聯絡電話/傳真電話：(02)22685828／(02)22685685

二、危害辨識資料

化學品危害分類：易燃液體第 2 級、急毒性物質第 4 級（吞食）、腐蝕/刺激皮膚物質第 2 級、嚴重損傷/刺激眼睛物質第 2 級、特定標的器官系統毒性物質~重覆暴露第 2 級、吸入性危害物質第 1 級、水環境之危害物質（急毒性）第 3 級
標示內容：    象徵符號：火焰、健康危害、驚嘆號 警示語：危險 危害警告訊息： 高度易燃液體和蒸氣 吞食有害 造成皮膚刺激 造成眼睛刺激 長期或重覆暴露可能會對器官造成傷害 對水生生物有害 如果吞食並進入呼吸道可能致命 危害防範措施： 緊蓋容器 遠離引火源－禁止抽煙 置容器於通風良好的地方 戴上合適的手套 衣服一經污染，立即脫掉 戴眼罩／護面罩 若與眼睛接觸，立刻以大量的水清洗後送醫診療 使用時勿吃、喝 不得誘導嘔吐 避免釋放至境中
其他危害：－

三、成份辨識資料

混合物：

化學性質：		
危害物質成分之中英文名稱	濃度或濃度範圍(成分百分比）	化學文摘社登記號碼（CAS NO.）

合成樹脂	37~43%	25608-33-7
色料-黑	8~12%	1333-86-4
醋酸丙二醇甲醚酯	27~32%	108-65-6
乙二醇丁醚	18~23%	111-76-2

四、**急救措施**

不同暴露途徑之急救方法：

吸　　入：1.施救前先做好自身的防護措施，以確保自己的安全。
2.移走污染源或將患者移至新鮮空氣處。
3.若呼吸停止立即由受訓過的人施以人工呼吸，若心跳停止施行心肺復甦術。
4.立即就醫。

皮膚接觸：1.立即緩和的刷掉或吸掉多餘的化學品。
2.用水和非磨砂性肥皂徹底但緩和的清洗20分鐘或真到化學品除去。
3.沖水時脫掉受污染的衣服、鞋子以及皮飾品(如手錶、皮帶)。
4.若沖洗後仍有刺激感，立即就醫
5.須將污染的衣物、鞋子以及皮飾品完全除污後再使用或丟棄。

眼睛接觸：1.立即緩和的刷掉或吸掉多餘的化學品。
2.立即將眼皮撐開，用緩和流動的溫水沖洗污染的眼睛20分鐘。
3.小心不要讓清洗的污水流入未受影響的眼睛。
4.立即就醫。

食　　入：1.若患者即將喪失意識、已失去意識或痙攣，不可經口餵食任何東西。
2.若患者意識清楚，讓其用水徹底漱口。
3.不可催吐。
4.給患者喝下240-300 毫升的水。
5.若患者自發性的嘔吐，讓其身體向前傾以減低吸入危險，並讓其漱口及反覆給水。
6.立即就醫。

最重要症狀及危害效應：蒸氣可能造成頭痛、疲勞、流淚、暈眩、眼花、麻木、噁心，抑制中樞神經系統。

對急救人員之防護：應穿著 C 級防護裝備在安全區實施急救。

對醫師之提示：依症狀處理

五、滅火措施

適用滅火劑：化學乾粉、二氧化碳、聚合泡沫、水霧

滅火時可能遭遇之特殊危害：**1.**其蒸氣和液體易燃，液體會累積電荷，蒸氣比空氣重會傳播至遠處，遇火源可能造成回火。
2.高溫會分解產生毒氣，火場中的容器可能會破裂、爆炸。

特殊滅火程序：1.撤退並自安全距離或受保護的地點滅火。
2.位於上風處以避免危險的蒸氣和有毒的分解物。
3.滅火前先阻止溢漏，如果不能阻止溢漏且周圍無任何危險， 讓火燒完， 若沒有阻止溢漏而先行滅火，蒸氣會與空氣形成爆炸性混合物而再引燃。
4.隔離未著火物質且保護人員。
5.安全情況下將容器搬離火場。
6.以水霧冷卻暴露火場的貯槽或容器。
7.以水霧滅火可能無效，除非消防人員受過各種易燃液體之滅火訓練。
8.如果溢漏未引燃，噴水霧以分散蒸氣並保護試圖止漏的人員。
9.以水柱滅火無效。
10.大區域之大型火災，使用無人操作之水霧控制架或自動搖擺消防水瞄。

11.儘可能撤離火場並允許火燒完。
12.遠離貯槽。
13.貯槽安全閥已響起或因著火而變色時立即撤離。
14.未著特殊防護設備的人員不可進入。

消防人員之特殊防護裝備：消防人員必須配戴空氣呼吸器、消防衣及防護手套。

六、洩漏處理方法

個人應注意事項：1.在污染區尚未完全清理乾淨前，限制人員接近該區。
2.確定清理工作是由受過訓練的人員負責。
3.穿戴適當的個人防護裝備。

環境注意事項：1.對洩漏區域進行通風換氣。
2.撲滅或除去所有發火源。
3.通知政府安全衛生與環保相關單位。
4.避免外洩物進入下水道或密閉的空間內。

清理方法：1.不要碰觸外洩物。
2.在安全許可的情形下，設法阻止或減少溢漏。
3.用不會和外洩物反應的泥土、沙或類似穩定且不可燃的物質圍堵外洩物。
4.少量溢漏時，用不會和外洩物反應之吸收劑吸收。已污染的吸收劑和外洩物具有同樣的危害性，須置於加蓋並標示的適當容器裡，用水沖洗溢漏區域。
5.大量溢漏時：連絡消防、緊急處理單位及供應商以尋求協助。

七、安全處置與儲存方法

處置：1.此物質是易燃性和毒性液體，處置時工程控制應運轉及善用個人防護設備；工作人員應受適當有關物質之危險性及安全使用法之訓練。
2.除去所有發火源並遠離熱及不相容物。
3.工作區應有“ 禁止抽煙”標誌。
4.液體會累積電荷，考慮額外之設計以增加電導性。如所有桶槽、轉裝容器和管線都要接地，接地時必須接觸到裸金屬，輸送操作中，應降低流速，增加操作時間，增加液體留在管線中之時間或低溫操作。
5.當調配之操作不是在密閉系統進行時，確保調配的容器和接收的輸送設備和容器要等電位連接。
6.空的桶槽、容器和管線可能仍有具危害性的殘留物，未清理前不得從事任何焊接、切割、鑽孔或其它熱的工作進行。
7.桶槽或貯存容器可充填惰性氣體以減少火災和爆炸的危險。
8.作業場所使用不產生火花的通風系統，設備應為防爆型。
9.保持走道和出口暢通無阻。
10.貯存區和大量操作的區域，考慮安裝溢漏和火災偵測系統及適當的自動消防系統或足夠且可用的緊急處理裝備。
11.作業避免產生霧滴或蒸氣，在通風良好的指定區內操作並採最小使用量，操作區與貯存區分開。
12.必要時穿戴適當的個人防護設備以避免與此化學品或受污染的設備接觸。
13.不要與不相容物一起使用(如強氧化劑) 以免增加火災和爆炸的危險。
14.使用相容物質製成的貯存容器，分裝時小心不要噴灑出來。
15.不要以空氣或惰性氣體將液體自容器中加壓而輸送出來。
16.除非調配區以耐火結構隔離，否則不要在貯存區進行調配工作。
17.使用經認可的易燃性液體貯存容器和調配設備。
18.不要將受污染的液體倒回原貯存容器。
19.容器要標示，不使用時保持緊密並避免受損。

儲存：1.貯存在陰涼、乾燥、通風良好以及陽光無法直接照射的地方，遠離熱源、發火源及不相容物。
2.貯存設備應以耐火材料構築。
3.地板應以不滲透性材料構築以免自地板吸收。
4.門口設斜坡或門檻或挖溝槽使洩漏物可排放至安全的地方。
5.貯存區應標示清楚，無障礙物，並允許指定或受過訓的人員進入。
6.貯存區與工作區應分開；遠離升降機、建築物、房間出口或主要通道貯存。
7.貯存區附近應有適當的滅火器和清理溢漏設備。
8.定期檢查貯存容器是否破損或溢漏。
9.檢查所有新進容器是否適當標示並無破損。
10.限量貯存。
11.以相容物質製成的貯存容器裝溢漏物。
12.貯桶接地並與其它設備等電位連接。
13.貯存易燃液體的所有桶子應安裝釋壓閥和真空釋放閥。
14.依化學品製造商或供應商所建議之貯存溫度貯存，必要時可安裝偵溫警報器，以警示溫度是否過高或過低。
15.避免大量貯存於室內，儘可能貯存於隔離的防火建築。
16.貯槽之排氣管應加裝滅焰器。
17.貯槽須為地面貯槽，底部整個區域應封住以防滲漏，周圍須有能圍堵整個容量之防溢堤。

八、暴露預防措施

工程控制：1.單獨使用不產生火花、接地的通風系統。
2.排氣口直接通到室外，並採取保護環境的重要措施。
3.大量使用此物質時，可能需要局部排氣裝置和製程密閉。
4.供給充份新鮮空氣以補充排氣系統抽出的空氣。

控制參數

項目 / 名稱	八小時日時量平均容許濃度 TWA	短時間時量平均容許濃度 STEL	最高容許濃度 CEILING	生物指標 BEI
醋酸丙二醇甲醚酯	-	-	-	-
乙二醇丁醚	25ppm	37.5ppm	–	-

個人防護設備：
眼睛防護：使用安全眼罩或面罩，不可配戴隱形眼鏡。
呼吸防護：1.500ppm以下：含有機蒸氣濾罐之化學濾罐式、動力型空氣淨化式、供氣式、自攜式呼吸防護具。
2.未知濃度：正壓自攜式呼吸防護具、正壓全面型供氣式呼吸防護具輔以正壓自攜式呼吸防護具。
3.逃生：含有機蒸氣濾罐之氣體面罩、逃生型自攜式呼吸防護具。
手部防護：防滲手套材質以聚氯乙烯、Teflon、Viton、4H、Barricade、Responder等為佳。
皮膚及身體防護：**1.**連身式防護衣。**2.**工作鞋。**3.**工作區要有淋浴/ 沖眼設備。

衛生措施：1.工作後儘速脫掉污染之衣物，洗淨後才可再穿戴或丟棄，且須告知洗衣人員污染物之危害性。
2.工作場所嚴禁抽煙或飲食。
3.處理此物後，須徹底洗手。
4.維持作業場所清潔。

安全資料表

九、物理及化學性質

外觀：-	氣味：溫和
嗅覺閾值：-	熔點：-
pH 值：-	沸點/沸點範圍：146 ℃
易燃性(固體,氣體) ：-	閃火點：42℃ 測試方法：閉杯
分解溫度：-	
自燃溫度：354℃	爆炸界限 1.5%~7.0%
蒸氣壓：3.8 mmHg@25℃	蒸氣密度：4.6 (空氣=1)
密度：0.966 (水=1)	溶解度：與水的溶解度為 18.5%，可溶於有機溶液
辛醇／水分配係數(log Kow)：-	揮發速率：0.39 (丁基醋酸=1)

十、安定性及反應性

安定性：正常狀況下安定
特殊狀況下可能之危害反應：1.強氧化劑：增加火災和爆炸的危險。 2.甲苯和四氧化二氮的混合物：可能被不純物起始爆炸。 3.硝酸：含硫酸的情況下會起激烈反應。 4.硫酸：放熱反應。 5.過氯酸鹽：形成爆炸性的混合物。 6.二氯化硫：激烈反應，鐵或氯化鐵會加速反應進行。 7.4硝基甲烷：形成敏感、易爆炸混合物。 8.六氟化鈾：激烈反應。
應避免之狀況：靜電、火焰、火花、熱及引火源。
應避免之物質：強氧化劑、四氧化二氮、硝酸、硫酸、過氯酸鹽、二氯化硫、4 硝基甲烷、六氟化鈾
危害分解物： —

十一、毒性資料

暴露途徑：皮膚、吸入、食入、眼睛
症狀：刺激、昏睡、頭痛、疲勞、暈眩、眼花、麻木、嘔吐、食慾不振、痢疾、噁心、精神混亂、動作不協調、抑制中樞神經系統、無意識、皮膚炎。
急毒性：吸入：蒸氣濃度約50ppm：輕微嗜睡和頭痛；50-100ppm：刺激鼻子、喉嚨和呼吸道；約100ppm：引起疲勞和暈眩；超過200ppm：引起之症狀與酒醉類似，眼花、麻木和輕微噁心；超過500ppm引起精神混亂和不協調；更高濃度(約10000ppm) 則更進一步抑制中樞神經系統，會導致無意識和死亡；更嚴重暴露可能引起腎臟衰竭。 皮膚：接觸初期可能引起溫和的刺激，長期接觸可能導致皮膚炎(皮膚乾、紅)。 眼睛：短暫(3-5分鐘) 暴露於300ppm蒸氣或長時間(6-7 小時) 暴露於100ppm皆會引起輕微刺激，更高濃度會造成眼睛充血及流淚，測到所引起的眼睛刺激於48小時內會康復。 食入：1.自食入而吸收，產生抑制中樞神經，症狀如吸入所述。 2.可能引起吸入，那是食入或嘔吐時將物質吸入肺部，可能導致肺部刺激，肺部組織受損和死亡。 LD50(測試動物、暴露途徑)：<870 mg/kg(大鼠，吞食) LC50(測試動物、暴露途徑)：6000 ppm/6H(大鼠，吸入)

慢毒性或長期毒性：1.神經系統：慢性中樞神經系統受損，記憶力喪失、睡眠不安、意志力不集中和動作不協調。
2.長期暴露可能影響聽力。
3.長期暴露於200ppm以下無明顯腎臟受損；500ppm以下無肝臟影響。
4.引起皮膚炎(皮膚紅、癢、乾燥)。
1500mg/m3/24H(懷孕1-8天的雌鼠，吸入) 造成胚胎中毒及不正常發育
IARC將之列為Group 3：無法判斷為人體致癌性。

十二、生態資料

生態毒性：LC50（魚類）：7.3-1840mg/1/96H
EC50（水生無脊椎動物）：－
生物濃縮係數（BCF）：1.67-380

持久性及降解性：
1.當甲苯釋放至空氣中後，可經與光化作用產生氫氧基反應而快速地分解掉。
2.其半衰期範圍可由三小時至一天不等。但此物質一經雨水沖洗即可被清除。
3.在各種不同的標準生物分解性試驗中發現，甲苯可以很快地被分解。
4.甲苯在魚體及水中的無脊椎動物體內無明顯的生物濃縮作用。
5.在工業化學中的生化需氧量(BOD)為2.06，而化學需氧量(BOD)為2.16，理論上分解1.8%需半天，而12%則需5半天。
半衰期（空氣） ：4.6-468小時
半衰期（水表面）：24~528小時
半衰期（地下水）：48~672小時
半衰期（土壤） ：45.5~168024小時

生物蓄積性：在大鼠實驗中，吸入300ppm 後，其體內並無蓄積性。

土壤中之流動性：-

其他不良效應：-

十三、廢棄處理方法

廢棄處理方法：
1.參考相關法規處理
2.依照倉儲條件貯存待處理的廢棄物。
3.可採用特定的焚化或衛生掩埋法處理。

十四、運送資料

聯合國編號：1263

聯合國運輸名稱：可燃性液體塗料

運輸危害分類：第三類易燃液體

包裝類別：III

海洋污染物（是／否）：否

特殊運送方法及注意事項：-

十五、法規資料

適用法規：
1.勞工安全衛生設備規則　　2.危險物與有害物標示及通識規則
3.有機溶劑中毒預防規則　　4.勞工作業環境空氣中有害物容許濃度標準
5.道路交通安全規則　　6.事業廢棄物貯存清除處理方法及設施標準
7.公共危險物品及可燃性高壓氣體設置標準暨安全管理辦法　8.毒性物質管理法

十六、其他資料

安全資料表

參考文獻	1.行政院衛福部，〝中美合作計畫「中文毒理清冊」〞，中華民國 86 年 3 月 2.行政院環保署，中文毒理資理庫 3.行政院環保署，毒性化學物質災害防救手冊，103 年 11 月 4.工業技術研究院工業安全衛生技術發展中心，物質安全資料表光碟資料 5.Handbook of Toxic and Hazardous Chemicals and Carcinogens 6.HSDB 資料庫，TOMES PLUS，2015 網頁版 7.行政院勞動部，化學品全球調和制度 [GHS] 介紹網站 8.中國國家標準 CNS15030「化學品分類及標示」 9.中國國家標準 CNS6864「危險物運輸標示」 10.UN Recommendations on the Transport of Dangerous Goods. Model Regulations. Rev.16 (2009) 11.ChemWatch 資料庫，2015 網頁版 12.緊急應變指南 2012 年版 13.IARC WEB	
製表者單位	名稱：海睿企業有限公司	
	地址/電話：新北市土城區勝利街 10 巷 8 號 3 樓　TEL：(02)22685828	
製表人	職稱：廠長	姓名(簽章)：陳清和
製表日期	中華民國一一二年十月三十一日	
備註	1.上述資料中心符號”－”代表目前查無相關資料。 2.上述資料已力求正確，但錯誤恐仍難免，各項數據與資料僅供參考，使用者請依應用需求，自行負責判斷其可用性，使用者應自行負責其安全。	

測試報告
Test Report

號碼(No.): ETR24303776　　日期(Date): 25-Mar-2024　　

海睿企業有限公司 (HAI-RUEI INDUSTRIAL CO., LTD.)
皇勝塗料企業社 (HI-SENSE PAINT CO.)
新北市土城區勝利街10巷8號3樓 (3 F., NO. 8, LN. 10, SHENGLI ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R.O.C.))
新北市土城區永平街30號 (NO. 30, YUNG PING ST., TUCHENG DISTRICT, NEW TAIPEI CITY, TAIWAN)

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

送樣廠商(Sample Submitted By)	:	海睿企業有限公司 (HAI-RUEI INDUSTRIAL CO., LTD.)
樣品名稱(Sample Name)	:	PAINT (塗料)
樣品型號(Style/Item No.)	:	客戶自行調配之樣品: A032、A058、A104、A170、A292、CL、HS、KRC、TA、TP、T、UA、US、UV、白、黑、黃、紅、綠、紫、藍、銀、珍珠、溶劑、PU金油、烤漆金油、UV金油、珍珠白、抗菌漆、導電漆 (SAMPLE IS BLENDED BY CLIENT: A032、A058、A104、A170、A292、CL、HS、KRC、TA、TP、T、UA、US、UV、WHITH、BLACK、YELLOW、RED、GREEN、PURPLE、BLUE、SILVER、PEARL、SOLVENT、PU CLEAR、PE CLEAR、UV CLEAR、PEARL WHITH、ANTIBACTETRIAL PAINT、CONDUCTIVE PAINT)

==========

收件日(Sample Receiving Date)	:	18-Mar-2024
測試期間(Testing Period)	:	18-Mar-2024 to 25-Mar-2024

測試需求(Test Requested) : 依據客戶指定，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, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

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

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

CHECK REPORT
PIN CODE: 3CEA6FBF

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測試報告
Test Report

海睿企業有限公司 (HAI-RUEI INDUSTRIAL CO., LTD.)
皇勝塗料企業社 (HI-SENSE PAINT CO.)
新北市土城區勝利街10巷8號3樓 (3 F., NO. 8, LN. 10, SHENGLI ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R.O.C.))
新北市土城區永平街30號 (NO. 30, YUNG PING ST., TUCHENG DISTRICT, NEW TAIPEI CITY, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 黑色膏狀 (客戶自行調配之樣品) (BLACK PASTE (SAMPLE IS BLENDED BY CLIENT))

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	n.d.
鉛 (Pb) (Lead (Pb))	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.
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 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.
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.

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				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.
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.
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	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)

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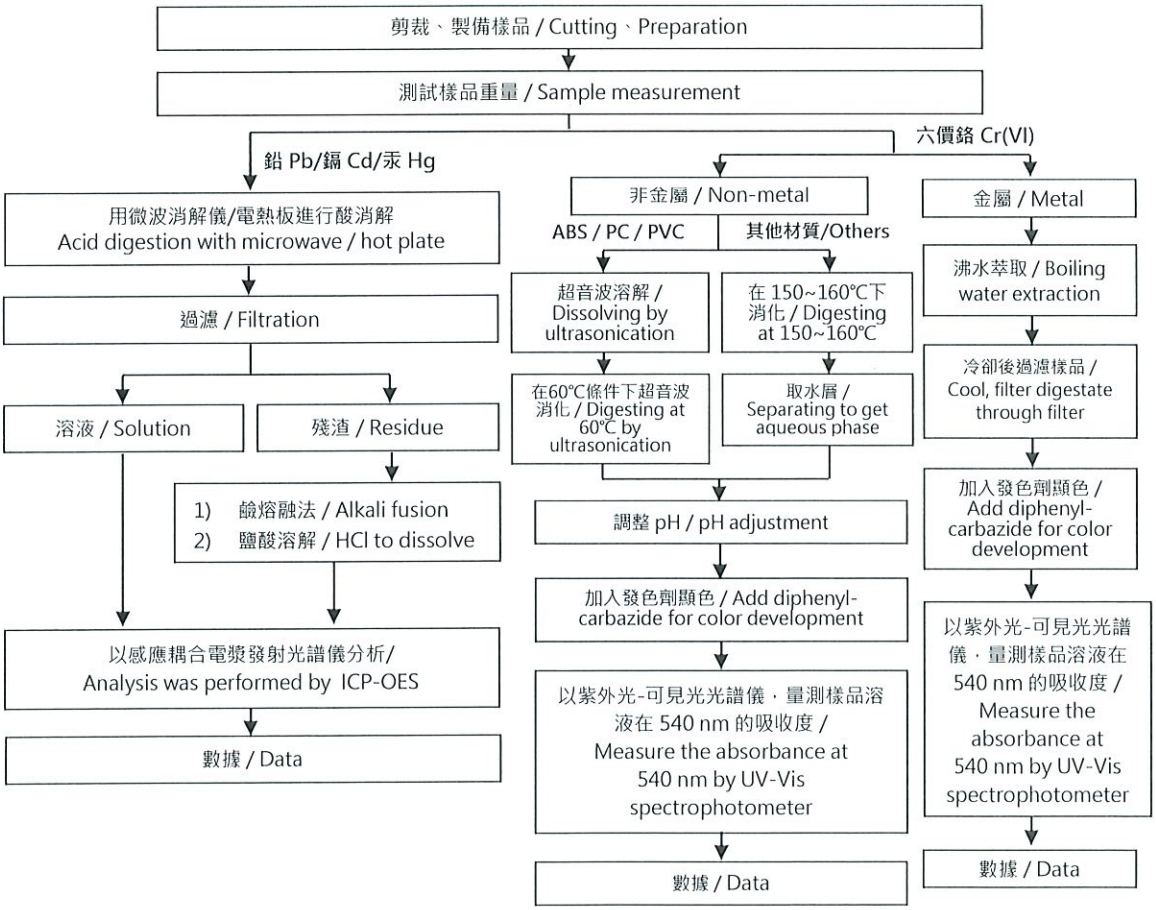
重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）
These samples were dissolved totally by pre-conditioning method according to below flow chart.
（Cr^{6+} test method excluded）



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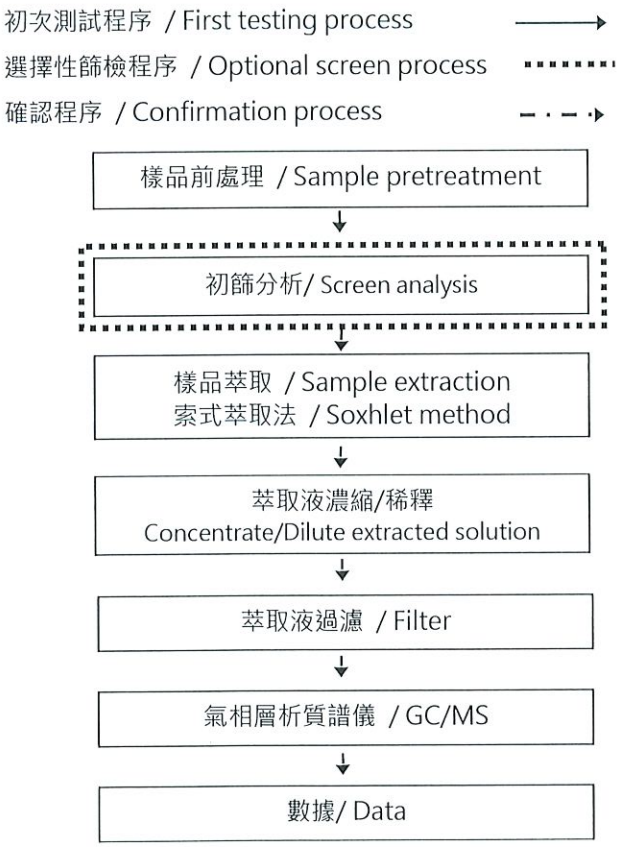
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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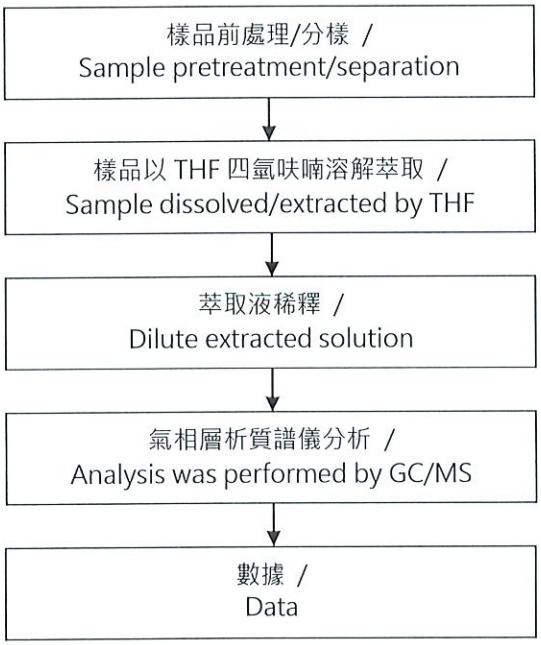
可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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

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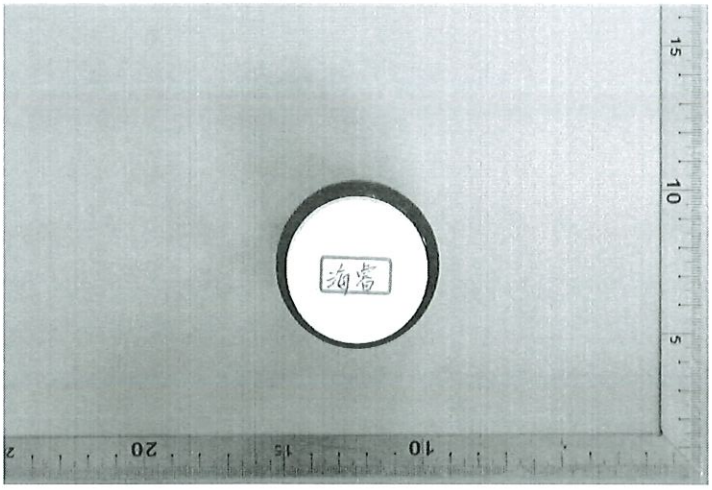

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** 報告結尾 (End of Report) **

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