

No. : SATP25034A

Reason for Application : New Part Spec Change New Vendor

Part No. : 38.D2609.AR1

Vendor : 雙銘工業

Description : PCB RFID ANTENNA BOARD AR1 CS-270E ROHS

Model No. : CS-270e

Application Date : 2025/07/15

Item	Contents	OK	Fail	Inspector
Eng. Dept	Artwork/Printing	V		James Wang
	Surface Treatment	V		
	Color	V		
	Part Dimensions	V		
	Material Properties	V		
	Specification Review	V		
	Electrical Properties	V		
	Integration Test	V		
Safety/EMC/RoHS Concern :		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Regulations	Safety	V		LungSheng Ku
	EMC	V		LungSheng Ku
	RoHS	V		James Wang

Computerize spec to : ED QA MM PD Vendor OthersSample to : QA Vendor OthersCritical Parameter / Dimension :
1.材質 : FR-4
2.厚度 : 1.6t
3.連板Dimension : 139mm*174.5mm
4.單片Dimension : 45mm*49.5mm

Remark : 1.附廠商 SGS test report & RoHS 相關文件。

Approved by : Alex FangReviewed by : Alex FangPrepared by : James Wang

Part No. :	38.D2609.AR1	<input type="checkbox"/> Mockup <input type="checkbox"/> Try Shot <input checked="" type="checkbox"/> SA						
Description :	PCB RFID ANTENNA BOARD AR1 CS-270E ROHS	Inspection Guage :						
Material :	As Spec. of SA	Caliper... (C) Micrometer... (M) Opt. Comparator.. (O) Pin Gauge... (P)						
Color :	As Spec. of SA	Height Gauge... (H) Thickness Gauge. (T) Go. No-Go.... (O) Spring Tester... (S)						
Packing :	As Spec. of SA	Projector..... (R) Laser Micro Gauge (L)						
Check code	Specification	Cav. No.	Determination					Gauge Code
			Sample1	Sample2	Sample3	Sample4	Sample5	
	As Spec. of SA		OK	OK	OK	OK		

Initiator : James Wang

Approved by : Alex Fang

Part No. : 38.D2609.AR1Vendor : 雙銘工業Description : PCB RFID ANTENNA BOARD AR1 CS-270E ROHS

Item	character	Spec	Sample1	Sample2	Sample3	Sample4	Sample5	Results
1	Artwork/ Printing		OK	OK	OK	OK	OK	
2	Surface Treatment		OK	OK	OK	OK	OK	
3	Color		OK	OK	OK	OK	OK	
4	Material Properties		OK	OK	OK	OK	OK	
5	Electrical Properties		OK	OK	OK	OK	OK	
6	Specification Review		OK	OK	OK	OK	OK	
7	Dimension		OK	OK	OK	OK	OK	
8	Integration Test		OK	OK	OK	OK	OK	

Conclusions :

Initiator : James Wang

Approved by : Alex Fang

Workflow History Report

Item: SAS2507005 HTT Current Status is: Flow Finished
Started By: James Wang Started On: 2025-07-15 05:17:27 Completed On: 2025-07-16 13:48:15

Activity	Type	State	Completed By	When	Comments
Send		Send	James Wang	2025-07-15 17:20:02	
Creator cosign	Approve	Approved	James Wang	2025-07-15 17:20:27	
Manager/Safety/EMC/R oHS Authorize	Approve	Approved	Alex Fang	2025-07-15 19:02:22	
Manager/Safety/EMC/R oHS Authorize	Approve	Approved	James Wang	2025-07-15 17:20:27	
Manager/Safety/EMC/R oHS Authorize	Approve	Approved	LungSheng Ku	2025-07-16 10:48:34	
Dept. HD or Supervisor HD	Approve	Approved	Alex Fang	2025-07-16 13:40:12	
Process	Approve	Approved	James Wang	2025-07-16 13:48:15	



承 認 書

SPECIFICATION FOR APPROVAL

誠研科技股份有限公司

中華民國 114 年 7 月 15 日

MODEL: 38. D2609. AR1

NO.

編號

承認印 APPROVED BY

雙銘工業有限公司
SHUANG MING INDUSTRY CO., LTD.

桃園縣八德市廣福路 879 巷 177 弄 25 號
NO. 25, ALLEY 177, LANE 879, GOANG FWU RD, TAOYUAN HSIEN, TAIWAN, R.O.C.

電 話 : (03) 3633446 (代表號)

傳 真 : (03) 3629621

MODEM : (03) 3778223

E-mail: smco01@ms22.hinet.net

統一編號 : 2 2 5 6 4 3 3 3

料號	38.D2609.AR1	商品編號	
外型尺寸	PNL 174.50 m 單片 49.50 m 尺寸：X139 /m 尺寸：X45.00 /m	□單面板 □雙面板 <input checked="" type="checkbox"/> 四層板 <input type="checkbox"/> 六層板 <input type="checkbox"/> 八層板 <input type="checkbox"/> 十層板	
材質種類	□ 94VO □ 94HB □ CEM-1 □ CEM-3 <input checked="" type="checkbox"/> FR-4	<input checked="" type="checkbox"/> 1 盎司 <input type="checkbox"/> 2 盎司	
UL登記	□ T004HB □ T005VO □ T008VO □ T0010VO □ T015VO <input checked="" type="checkbox"/> T016VO		
材質厚度	<input checked="" type="checkbox"/> 1.6t □ 1.2t □ 1.0t □ 0.8t □ 0.6t □ 0.4t □ 0.3t □ 其它 _____ t		

樣品流程：

1. 開沖模 內型 CNC 外型 Routing 內型 CNC 外型沖模 V-CUT 6 刀
2. 線路： 單面 雙面 內層2面 dry
3. 文字： 單面 雙面 白色 黑色 其它 _____
4. 防焊： 單面 雙面 UV PC401 L/Q 顏色 綠色
 絝緣 碳墨 銀膠 保護膜 其它 _____
5. 表面處理： 無鉛噴錫 噴錫 化學錫 ENTEK 化金 3 μ " 化銀
6. 鍍金 _____ μ " 鍍鎳 _____ μ " 金手指 _____ μ " 斜邊 _____ 度

承認底片 _____ 份	樣品 _____ 份	機構(孔裡) <u>1</u> 份	材質證明 <u>1</u> 份	UL卡 <u>1</u> 份
廠商簽回意見				
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廠商承認簽章	雙銘工業有限公司工程部 承製者簽章：  審核： 			

Wiring, Printed - Component

COMPANY
SHUANG MING INDUSTRY CO LTD

25 Aly 177 Ln 879 Guangfu Rd
Bade District
Taoyuan, 334 Taiwan

E78017

Type	Cond Width		Cond	SS/	Area	date	Surface	Assembly Solder		Solder	Max		Meets	C	
	Min	Edge		Thk	DS/	Diam	After	Mount	Process		Limits	Temp	Flame		
	mm	mm		mic	DSO	mm	2022-01-01	Technology	Temp °C	Cycles	°C sec	°C	Class	DSR	I
Multilayer printed wiring boards															
T015V0	0.10	0.18	17 Int:35	DS	76.2	No	-	-	-	270	10	105	V-0	All	-
T016V0	0.10	0.15	17 Int:102	DS	76.2	No	-	-	-	280	10	130	V-0	All	-
T017V0	0.10	0.15	17 Int:102	DS	50.8	No	-	-	-	280	10	130	V-0	All	-
Single layer Metal Base printed wiring boards															
SM001	0.13	0.28	27	SS	25.4	No	-	-	-	280	10	100	V-0	All	0
SM002	0.10	0.25	27	SS	25.4	No	-	-	-	280	10	130	V-0	All	0
Single layer Metal Base printed wiring boards, flammability only Recognition															
Sal001	-	-	-	SS	-	No	-	-	-	280	10	-	V-0	-	-
Sal002	-	-	-	DS	-	No	-	-	-	280	10	-	V-0	-	-
Sal003	-	-	-	SS	-	No	-	-	-	280	10	-	V-0	-	-
Single layer printed wiring boards															
T001HB	0.18	0.53	33	SS	25.4	No	-	-	-	260	10	105	HB	▲	-
T002V1	0.18	0.53	33	SS	25.4	No	-	-	-	260	10	105	V-1	All	-
T003V1	0.18	0.53	33	SS	25.4	No	-	-	-	260	10	105	V-1	All	-
T004HB	0.18	0.53	33	SS	25.4	No	-	-	-	260	10	105	HB	▲	-
T005V0	0.10	0.22	17	DS	50.8	No	-	-	-	274	15	130	V-0	All	*
T005VO	0.10	0.22	17	DS	50.8	Yes	No	-	-	274	15	130	V-0	All	*
T006V0	0.10	0.15	17	DS	50.8	No	-	-	-	280	10	105	V-0	▲	-
T007V0 (ASP 1)	0.10	0.15	17	DS	76.2	Yes	Yes	260	2	-	-	130	V-0	All	3
T008V0	0.10	0.28	33	SS	25.4	No	-	-	-	260	10	105	V-0	All	-
T010V0	0.08	0.20	33	SS	25.4	No	-	-	-	260	10	105	V-0	▲	-
T011V0	0.15	0.25	33	SS	25.4	No	-	-	-	260	10	130	V-0	▲	-

* - CTI marking is optional and may be marked on the printed wiring board.

ASP 1 - Assembly solder process evaluated to IPC-TM-650, 2.6.27 Thermal Stress Assembly Simulation.

Marking: Company name or trademark  or file number and type designation. May be followed by a suffix to denote factory identification or flammability classification.

Last Updated on 2025-04-17

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NAN YA PLASTICS CORPORATION
COPPER CLAD LAMINATE
QUALITY TEST REPORT

2, Chung-Yang Ind. Park,
Hsin-Kang Hsiang,
Jiayih, Taiwan
TEL : (05)3772111 Ext. 569 ~ 570
FAX : (05)3771640

CUSTOMER : 宇賀實業

ORDER NO : HC6J1144

LOT NO : 4505316B

PO NO : NC115-J0620-26

MTL NO : CFRM1111012451092SH

QUANTITY : 200

MATERIAL SPEC. : NP-140TL 1/1 1.10mm 1245mm x 1092mm WLSH (OVERALL THICKNESS)

IPC DESIGNATION : L21 0400 EXC H1/H1 C/A 49" x 43" (f x g)

L21 0430 IN H1/H1 C/A 49" x 43" (f x g)

DATE:2024/06/24

PALLET NO :

REQUIREMENT : IPC-4101E

UL FILE : E98983

GLASS FIBER : NAN YA Hsin-Kang Taiwan

COPPER FOIL : NAN YA Hsin-Kang Taiwan

EPOXY RESIN : NAN YA Mailiao Taiwan

NAN YA PLASTICS
COPPER CLAD LAMINATE
QUALITY ASSURANCE

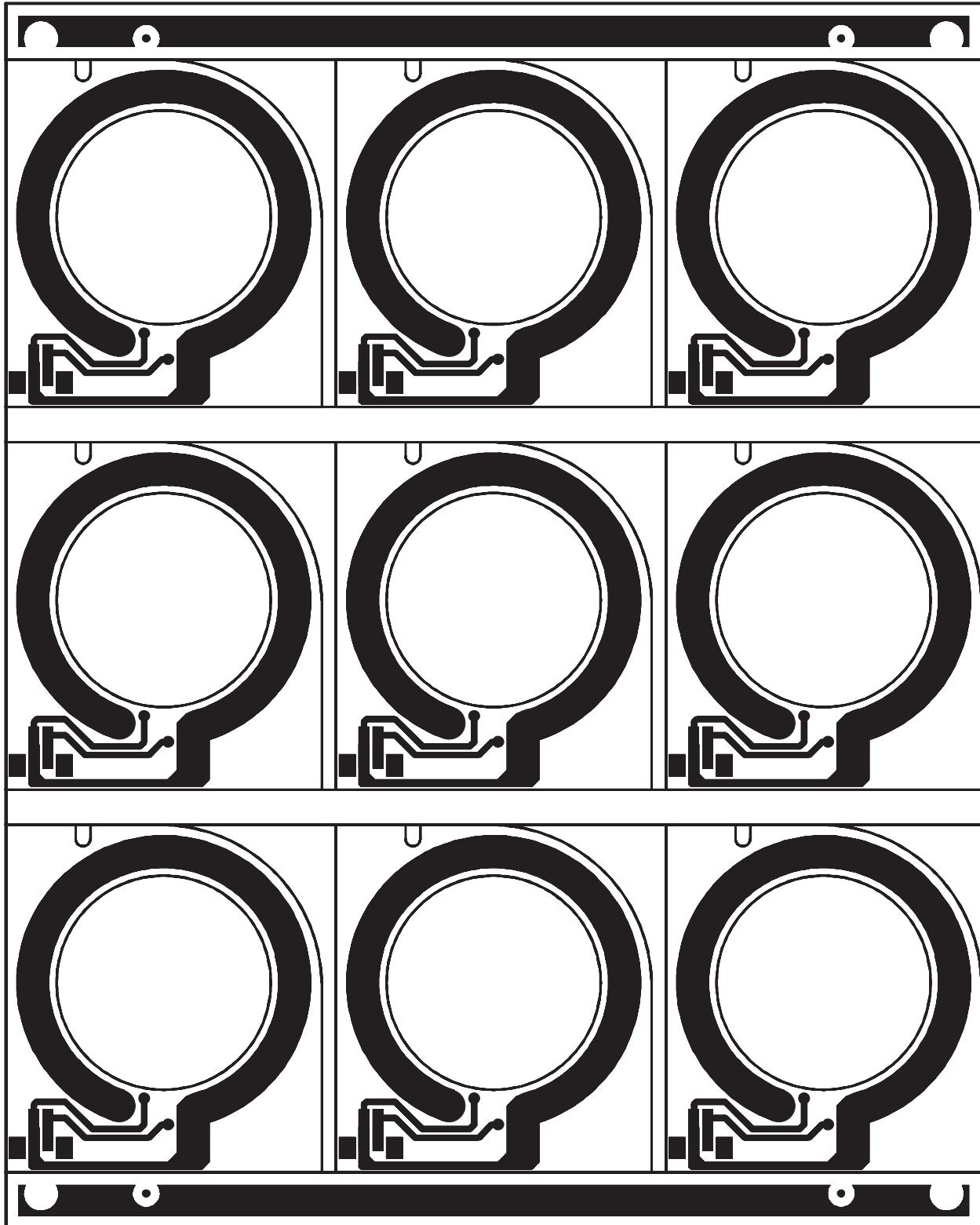
TEST ITEM	UNIT	TEST METHOD	SPECIFICATION	RESULTS
VISUALS	-	IPC-4101E	B	OK
SURFACE & SUBSURFACE	-	IPC-4101E	B	OK
METAL THICKNESS(UP)	μm	IPC-4101E	1oz:30.86~37.72	34.28
METAL THICKNESS(DOWN)	μm	IPC-4101E	1oz:30.86~37.72	33.25
PERMITTIVITY(1MHZ)	-	C-24/23/50	5.4 ↓	4.43
PERMITTIVITY(1GHZ)	-	C-24/23/50	5.4 ↓	4.00
LOSS TANGENT(1MHZ)	-	C-24/23/50	0.035 ↓	0.018
LOSS TANGENT(1GHZ)	-	C-24/23/50	0.035 ↓	0.011
SURFACE RESISTIVITY	$M\Omega$	C-96/35/90	$<0.50mm:10^4 \uparrow$; $\geq 0.50mm:---$	2.3E6
SURFACE RESISTIVITY	$M\Omega$	E-24/125	$10^3 \uparrow$	2.5E6
VOLUME RESISTIVITY	$M\Omega\cdot cm$	C-96/35/90	$<0.50mm:10^6 \uparrow$; $\geq 0.50mm:---$	5.1E8
VOLUME RESISTIVITY	$M\Omega\cdot cm$	E-24/125	$10^3 \uparrow$	6.1E5
ARC RESISTANCE	sec	D-48/50+D-0.5/23	60 ↑	121
FLEXURAL STRENGTH	N/mm ²	LENGTHWISE A	415 ↑	465
FLEXURAL STRENGTH	N/mm ²	CROSSWISE A	345 ↑	443
THERMAL STRESS	-	288°C x 40sec	NO BLISTER DELAMINATION	OK
WARP AND TWIST	%	A	SINGLE DOUBLE 0.5~0.78mm: 2.0 ↓ 1.5 ↓ >0.79mm: 1.5 ↓ 1.0 ↓	0.58
PRESSURE VESSEL	-	15psi x30min + 260°Cx20sec	IPC-TM-650	OK
MOISTURE ABSORPTION	%	E-1/105+DES+D-24/23	0.80 ↓	0.114
PEEL STRENGTH(UP)	lb/in	AFTER THERMAL STRESS	$<0.5mm:4.57 \uparrow$; $\geq 0.5mm:6.0 \uparrow$ NP-180:<0.5mm:6.0 ↑; $\geq 0.5mm:8.28 \uparrow$	10.28
PEEL STRENGTH(DOWN)	lb/in	AFTER THERMAL STRESS	$<0.5mm:4.57 \uparrow$; $\geq 0.5mm:6.0 \uparrow$ NP-180:<0.5mm:6.0 ↑; $\geq 0.5mm:8.28 \uparrow$	12.42
TG GLASS TRANSITION TEMP	°C	E-2/105	135 ↑ (DSC)	135.9/136.5
FLAMMABILITY	sec	C-48/23/50	UL-94-V0	OK
		E-24/125	VDE-0860	
DIELECTRIC BREAKDOWN	kV	D-48/50+D-0.5/23	40 ↑	68
CONSTRUCTION	-	A	7628*6	7628*6
THICKNESS(MAX.)	mm	A	$\leq 1.2mm$:CLASS C/M; $> 1.2mm$:CLASS B/L	1.141
THICKNESS(MIN.)	mm	A	$\leq 1.2mm$:CLASS C/M; $> 1.2mm$:CLASS B/L	1.121
THICKNESS(AVG.)	mm	A	$\leq 1.2mm$:CLASS C/M; $> 1.2mm$:CLASS B/L	1.127
COPPER ROUGHNESS(S/S)UP	μm	IPC-4562	$Ra: \leq 0.4/Rz: \leq 2.5$ TYPE:HTE	0.23/2.36
COPPER ROUGHNESS(M/S)UP	μm	IPC-4562	$Ra: \leq 1.7/Rz: \leq 9.5$	1.49/8.84
COPPER ROUGHNESS(S/S)DOWN	μm	IPC-4562	$Ra: \leq 0.4/Rz: \leq 2.5$ TYPE:HTE	0.23/2.36
COPPER ROUGHNESS(M/S)DOWN	μm	IPC-4562	$Ra: \leq 1.7/Rz: \leq 9.5$	1.66/8.79

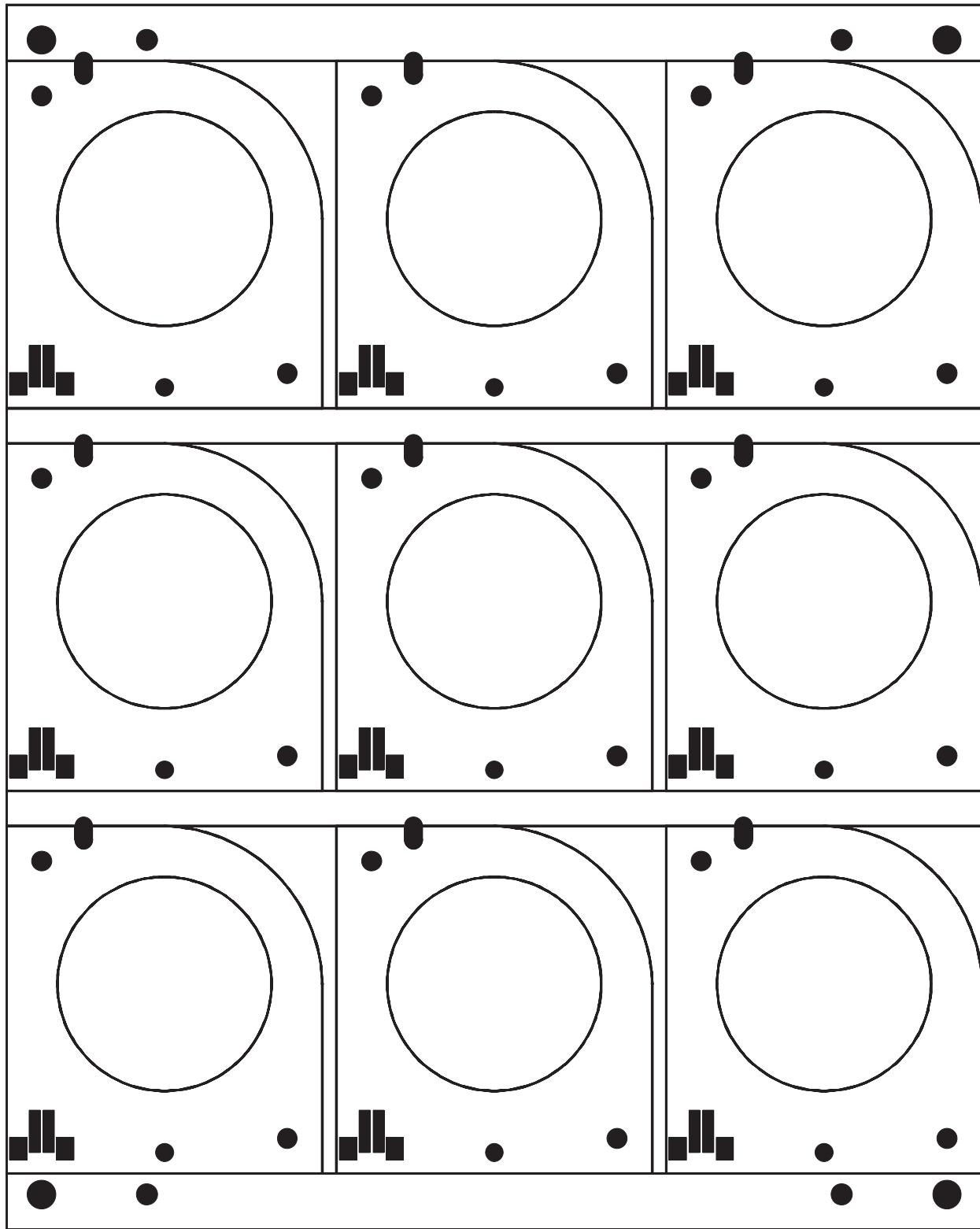
THIS IS TO CERTIFY THAT THE MATERIAL BEING FURNISHED TO YOU MEETS THE IPC-4101E, RoHS AND SS-00259.
THE RESULTS OF THIS QUALITY TEST IS PASS.

APPROVED BY:

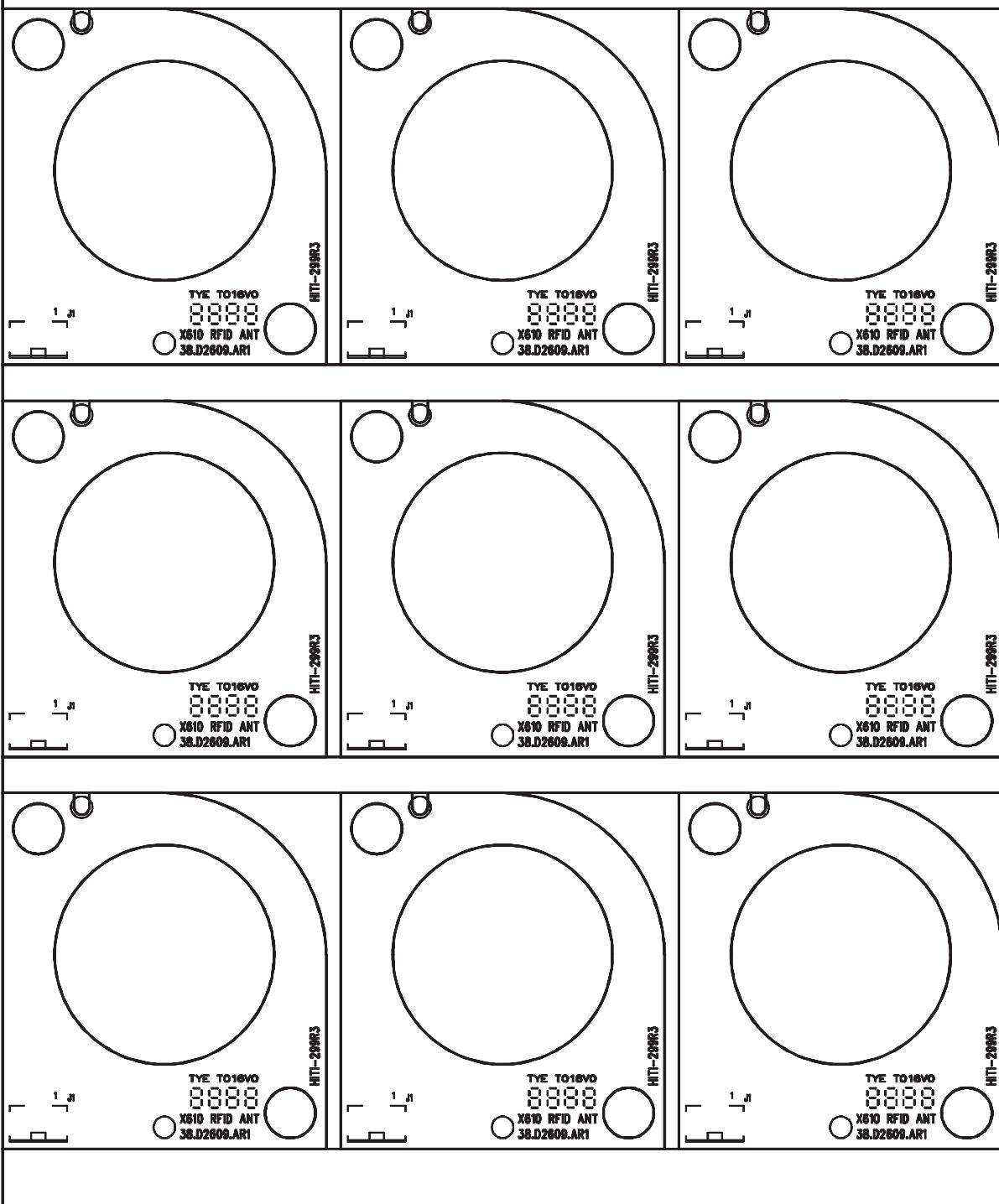
W.H.Liao

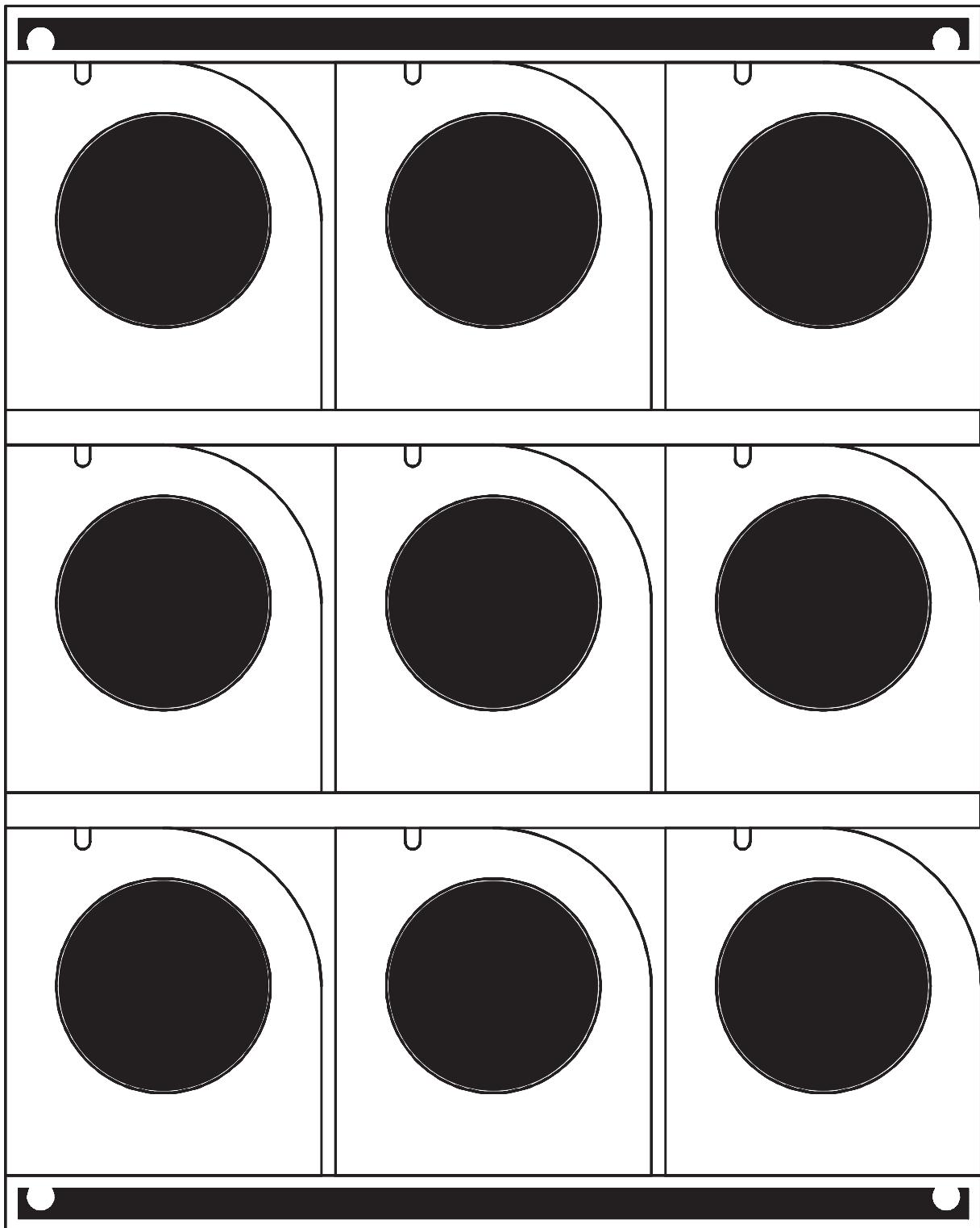


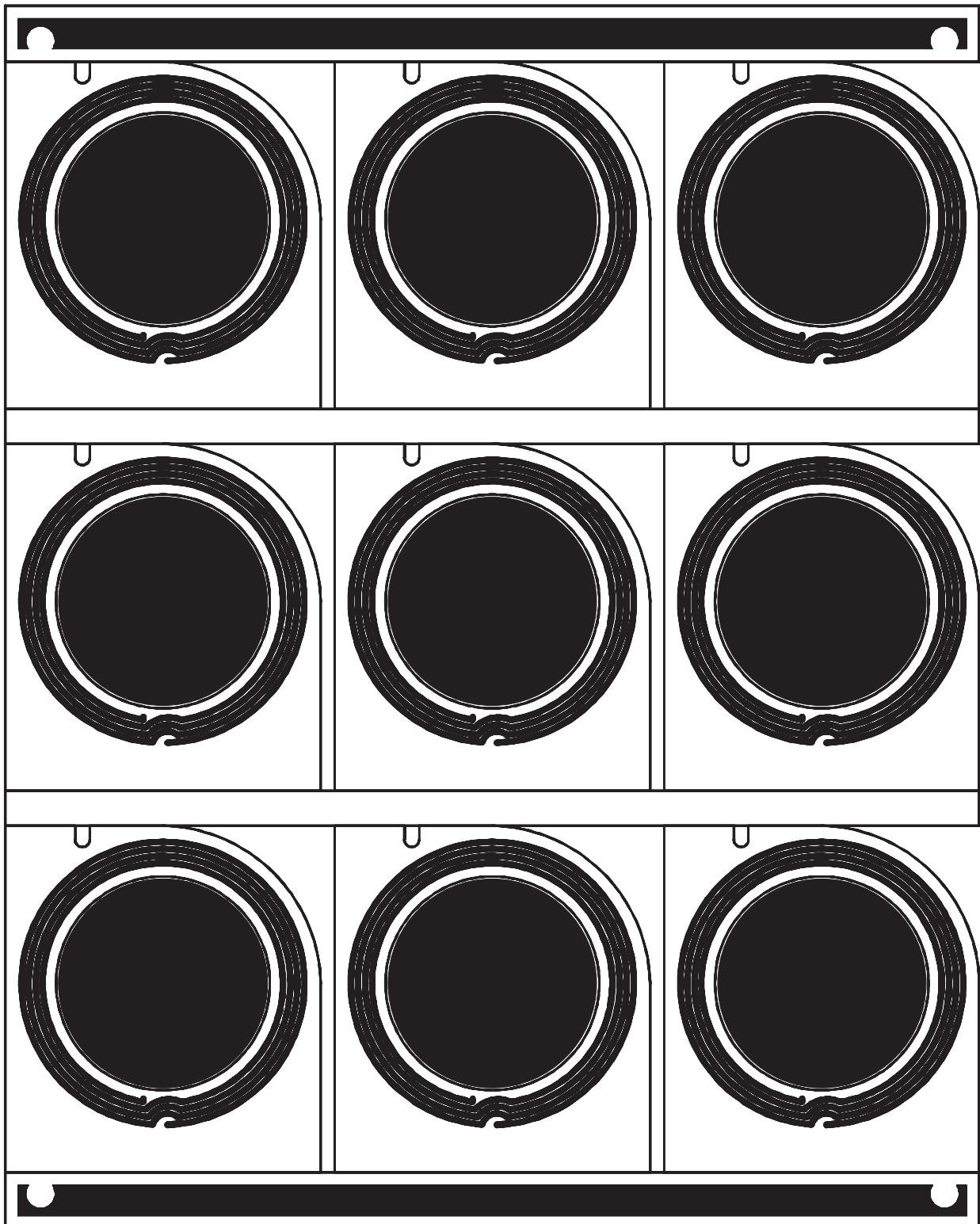


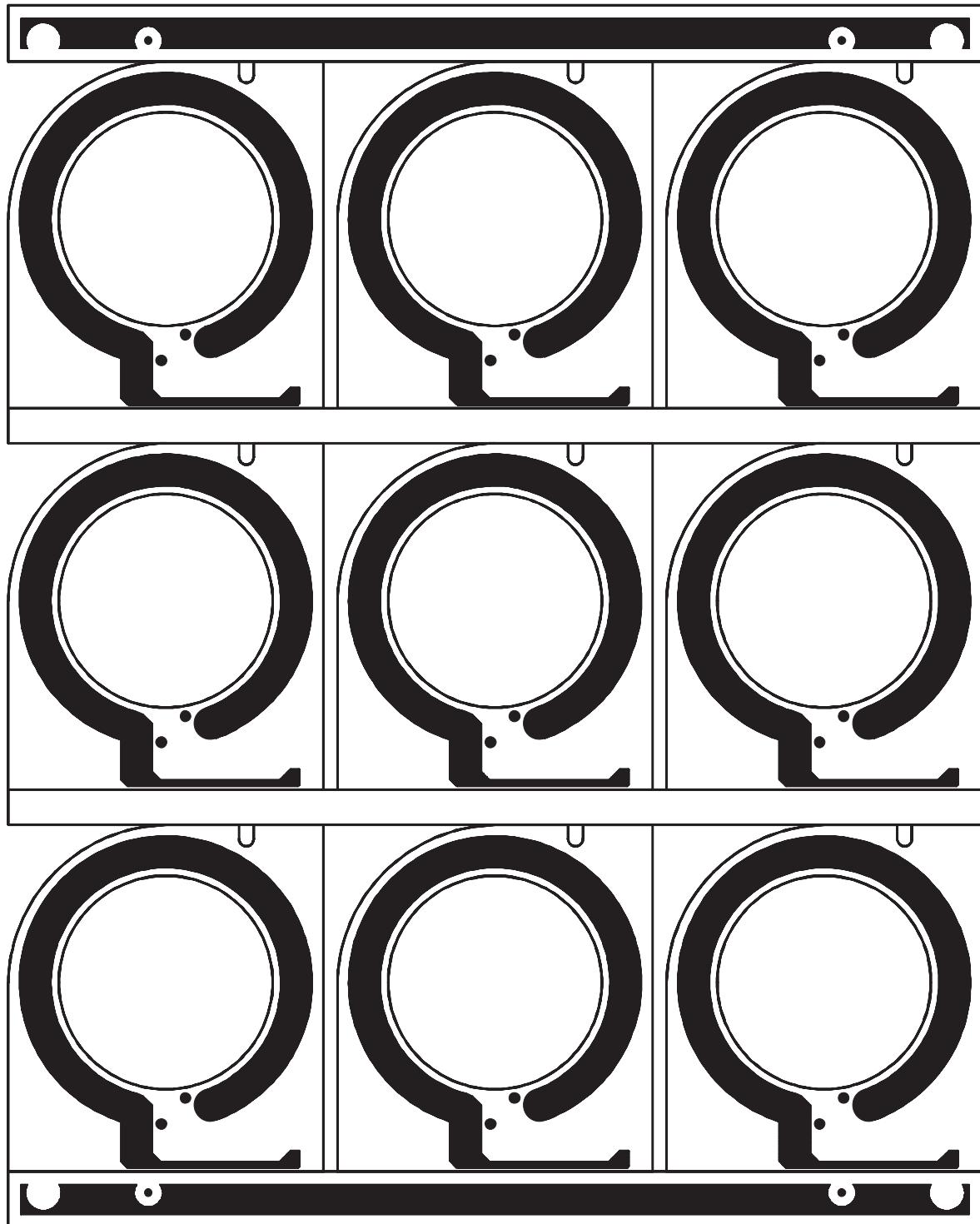


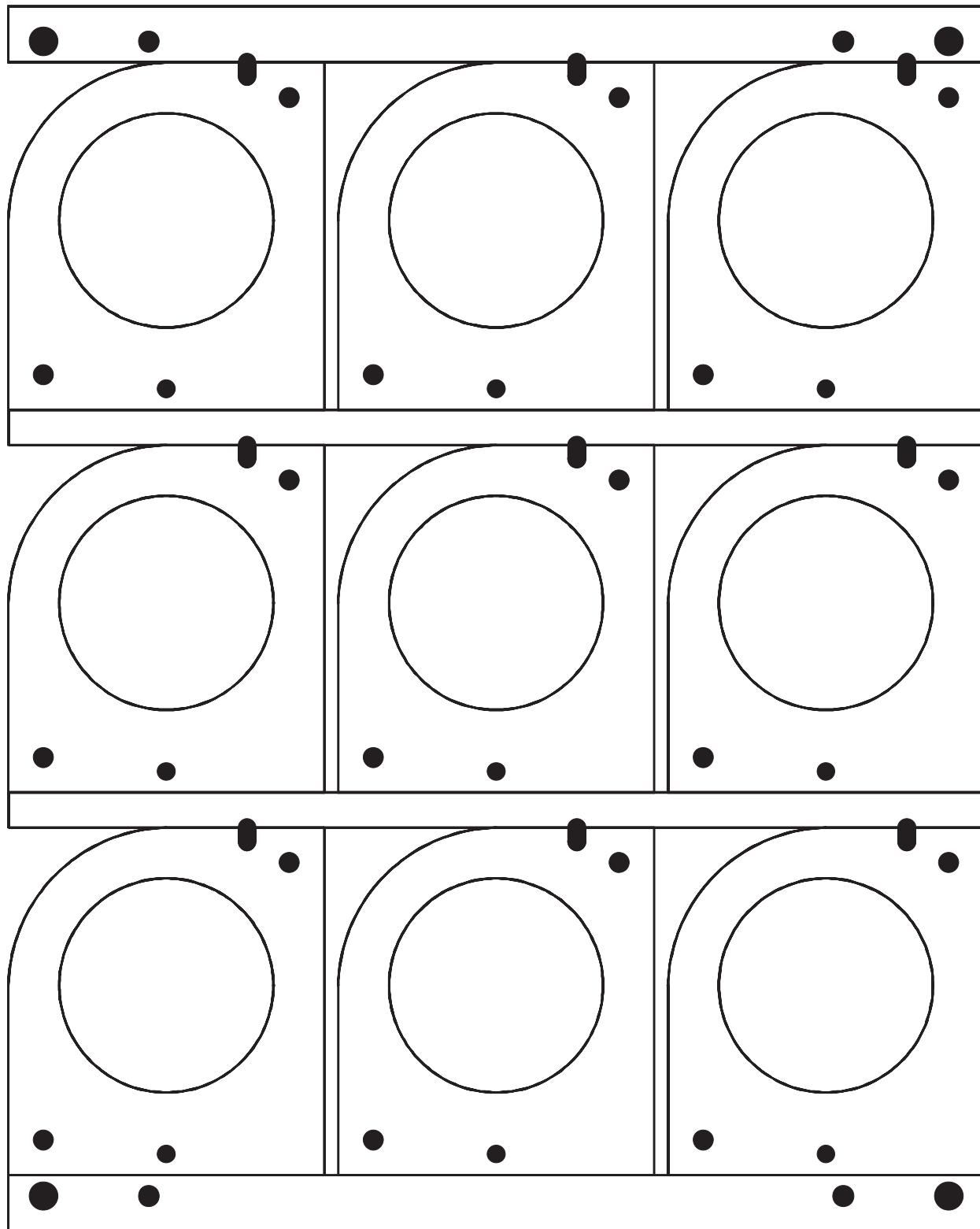
38.D2609.AR1-HIT1229R3

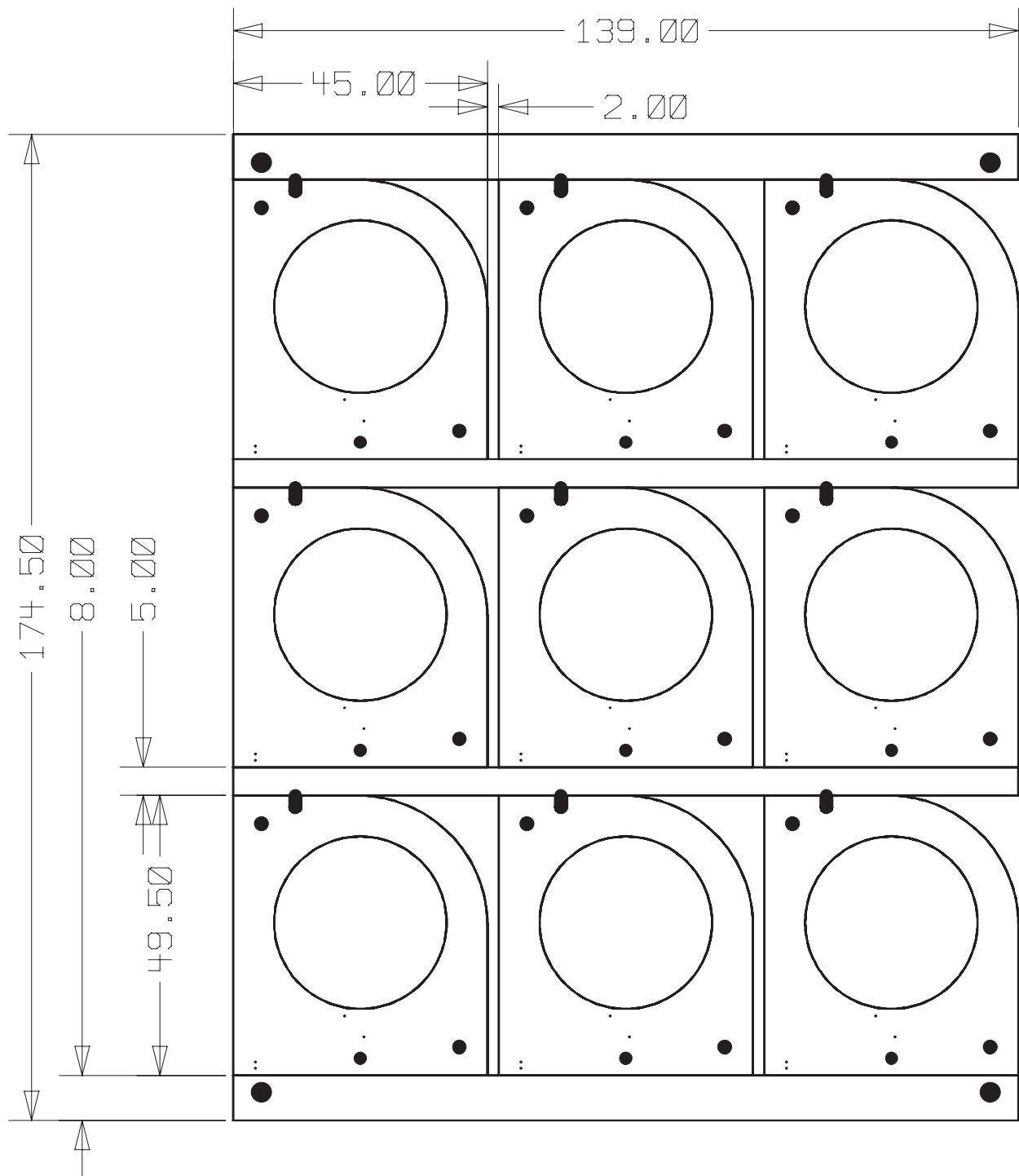




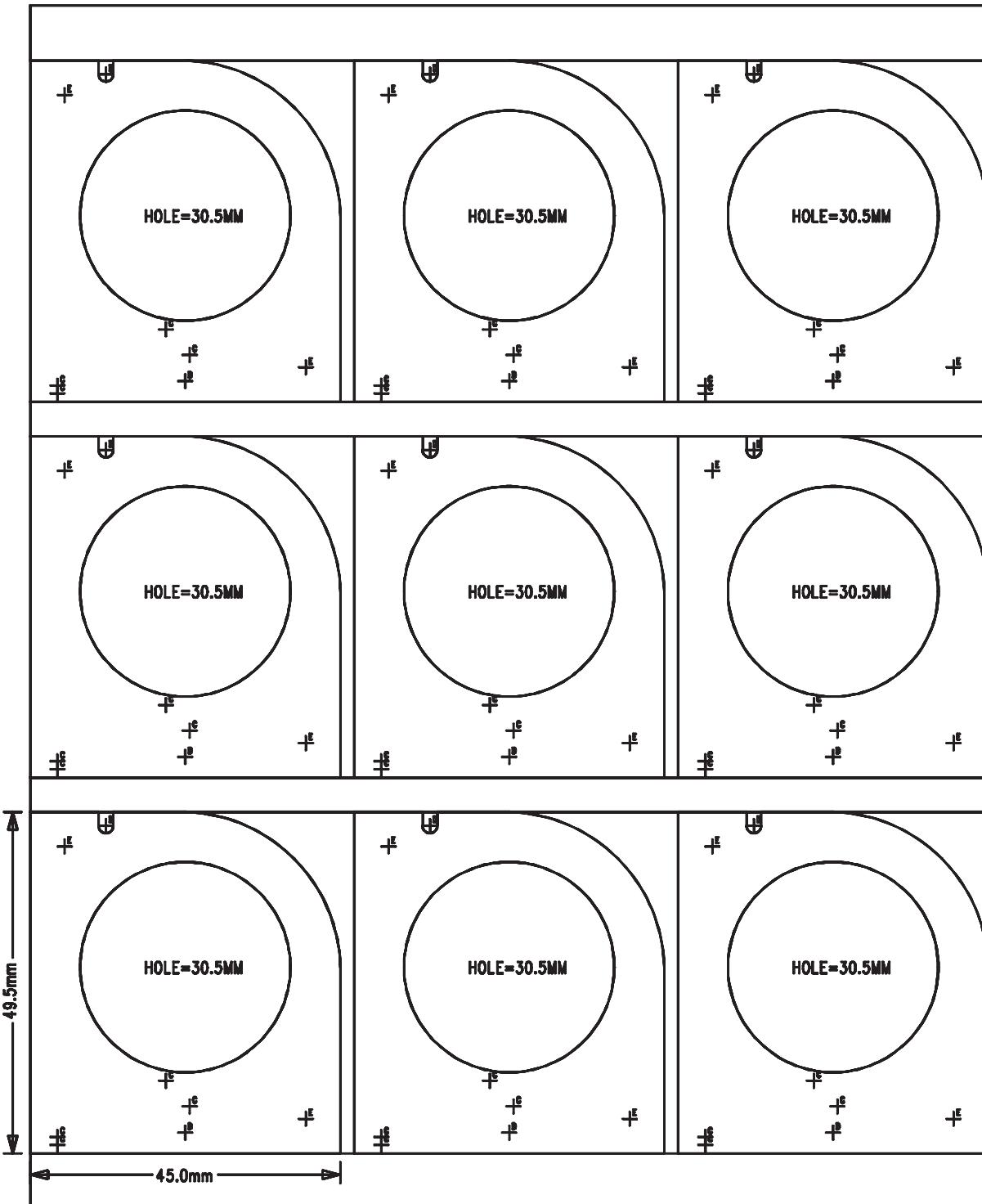








SIZE	QTY	SYM	PLATED	TOL
0.25	4	+ ^C	YES	+/-0.0
2.1	2	+ ^D	NO	+/-0.0
2.4	2	+ ^E	NO	+/-0.0





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測試報告/ Test Report

工服編號/ Application No 24-10-QAC-146

承辦日期/ Date of Receipt 2024/10/23

測試日期/ Date of Performance 2024/10/23~2024/10/30

報告日期/ Date of Issue 2024/10/30

委託機構/ Applicant 利誠企業有限公司

Li Cheng Enterprise Co., Ltd.

地 址/ Address 桃園市蘆竹區長興路三段 264 巷 6 號

No.6 lane 264 Changxing road 3 Sec., Luchu Dist., Tayouan City, Taiwan. ROC.

樣品名稱/ Sample Description 化學金/ ELECTROLESS GOLD

樣品型號/ Model No. ---

測試內容/ Report Content A. 樣品敘述與測試結果/ Sample Information & Results

B. 樣品圖片/ Sample Photo

C. 流程圖/ Flow Chart

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Laboratory Representative

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A 樣品敘述/ Sample Information

No.1

樣品編號/ Sample No. 24-10-QAC-146

樣品名稱/ Sample Description 化學金/ ELECTROLESS GOLD

樣品型號/ Model No. ---

測試結果/ Test Results

測試項目 Test Item(s)	儀器設備 Instruments	測試方法 Test Method	測試結果/ Test Results (單位/ Unit : ppm)	
			No.1	方法偵測極限 MDL
鉛/ Pb (CAS No.7439-92-1)	ICP-OES	Reference IEC 62321-5:2013 Totally Dissolved	N.D.	2.0
鎘/ Cd (CAS No.7440-43-9)	ICP-OES	Reference IEC 62321-5:2013 Totally Dissolved	N.D.	2.0
汞/ Hg (CAS No.7439-97-6)	ICP-OES	Reference IEC 62321-4:2013 Totally Dissolved	N.D.	2.0
六價鉻/ Cr ⁶⁺ (CAS No.1333-82-0)	UV-VIS	Reference IEC 62321-7-2:2017	N.D.	8.0
多溴聯苯/ PBBs (CAS No.059536-65-1)				
Monobromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Dibromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Tribromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Tetrabromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Pentabromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0

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測試項目 Test Item(s)	儀器設備 Instruments	測試方法 Test Method	測試結果/ Test Results (單位/ Unit : ppm)	
			No.1	方法偵測極限 MDL
Hexabromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Heptabromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Octabromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Nonabromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Decabromobiphenyl	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
多溴聯苯醚/ PBDEs (CAS No.1163-19-5)				
Monobromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Dibromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Tribromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Tetrabromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Pentabromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Hexabromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Heptabromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Octabromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Nonabromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0
Decabromodiphenyl ether	GC-MS	Reference IEC 62321-6:2015	N.D.	5.0

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測試項目 Test Item(s)	儀器設備 Instruments	測試方法 Test Method	測試結果/ Test Results (單位/ Unit : ppm)	
			No.1	方法偵測極限 MDL
鄰苯二甲酸酯/ Phthalates				
Di(2-ethyl hexyl) phthalate (DEHP) (CAS No.117-81-7)	GC-MS	Reference IEC 62321-8:2017	N.D.	50.0
Di-n-butyl phthalate (DBP) (CAS No.84-74-2)	GC-MS	Reference IEC 62321-8:2017	N.D.	50.0
Butyl benzyl phthalate (BBP) (CAS No.85-68-7)	GC-MS	Reference IEC 62321-8:2017	N.D.	50.0
Diisobutyl phthalate (DIBP) (CAS No.84-69-5)	GC-MS	Reference IEC 62321-8:2017	N.D.	50.0
鹵素/ Halogen				
F (CAS No.14762-94-8)	I.C.	Reference EN 14582:2016	N.D.	50.0
Cl (CAS No.22537-15-1)	I.C.	Reference EN 14582:2016	N.D.	50.0
Br (CAS No.10097-32-2)	I.C.	Reference EN 14582:2016	N.D.	50.0
I (CAS No.14362-44-8)	I.C.	Reference EN 14582:2016	N.D.	50.0

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測試項目 Test Item(s)	儀器設備 Instruments	測試方法 Test Method	測試結果/ Test Results (單位/ Unit : ppm)	
			No.1	方法偵測極限 MDL
全氟辛烷磺酸鹽/ PFOS				
C ₈ F ₁₇ KO ₃ S (CAS No. 2795-39-3)	LC-MS/MS	Reference CNS 15808-1:2023	N.D.	0.025
C ₈ F ₁₇ SO ₃ H (CAS No. 1763-23-1)	LC-MS/MS	Reference CNS 15808-1:2023	N.D.	0.025
全氟辛烷酸/ PFOA				
C ₄ HF ₇ O ₂ (CAS No. 375-22-4)	LC-MS/MS	Reference CNS 15808-1:2023	N.D.	0.025
C ₅ HF ₉ O ₂ (CAS No. 2706-90-3)	LC-MS/MS	Reference CNS 15808-1:2023	N.D.	0.025
C ₆ HF ₁₁ O ₂ (CAS No. 307-24-4)	LC-MS/MS	Reference CNS 15808-1:2023	N.D.	0.025
C ₇ HF ₁₃ O ₂ (CAS No. 375-85-9)	LC-MS/MS	Reference CNS 15808-1:2023	N.D.	0.025
C ₈ HF ₁₅ O ₂ (CAS No. 335-67-1)	LC-MS/MS	Reference CNS 15808-1:2023	N.D.	0.025
C ₉ HF ₁₇ O ₂ (CAS No. 375-95-1)	LC-MS/MS	Reference CNS 15808-1:2023	N.D.	0.025

備註/ Note :

1. N.D. : 即為偵測不到/ Not Detected.(低於方法偵測極限/ below Method Detection Limit.)
2. MDL : 方法偵測極限/ Method Detection Limit.
3. ppm : = mg/kg (0.1% = 1000 ppm)
4. 測試儀器中英文對照/ Sino-British Contrast of the instrument
 - a. ICP-OES 感應耦合電漿原子發射光譜儀
 - b. UV-VIS 分光光度計
 - c. GC-MS 氣相層析質譜儀
 - d. LC-MS/MS 液相層析串聯式質譜儀
 - e. IC 離子層析儀
5. 測試人員/ Tested by : Wei、Ellen、Yin、ZIV
6. 檢閱人員/ Reviewed by : sujane

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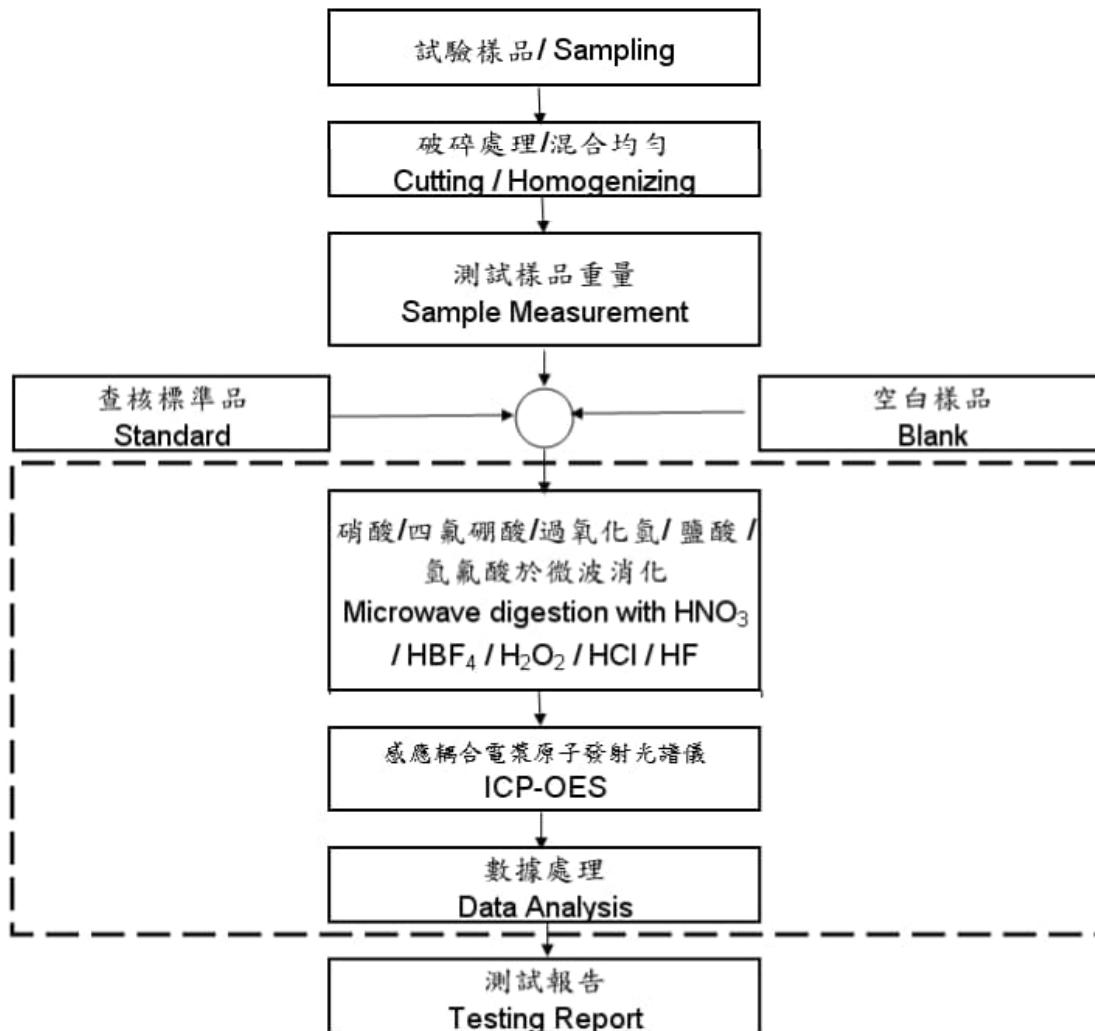
B. 樣品照片 / Sample Photo



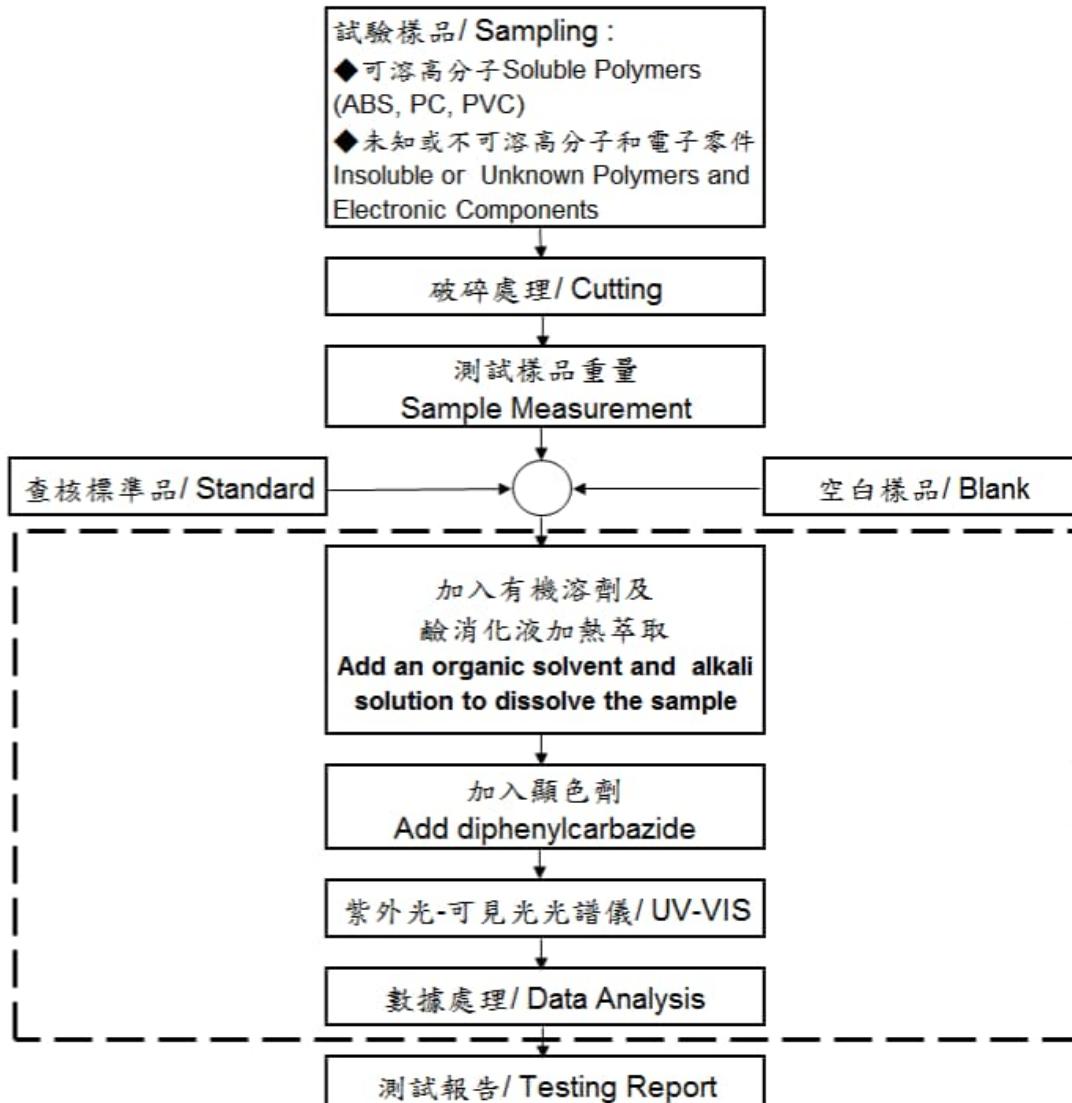
測試部位：液體

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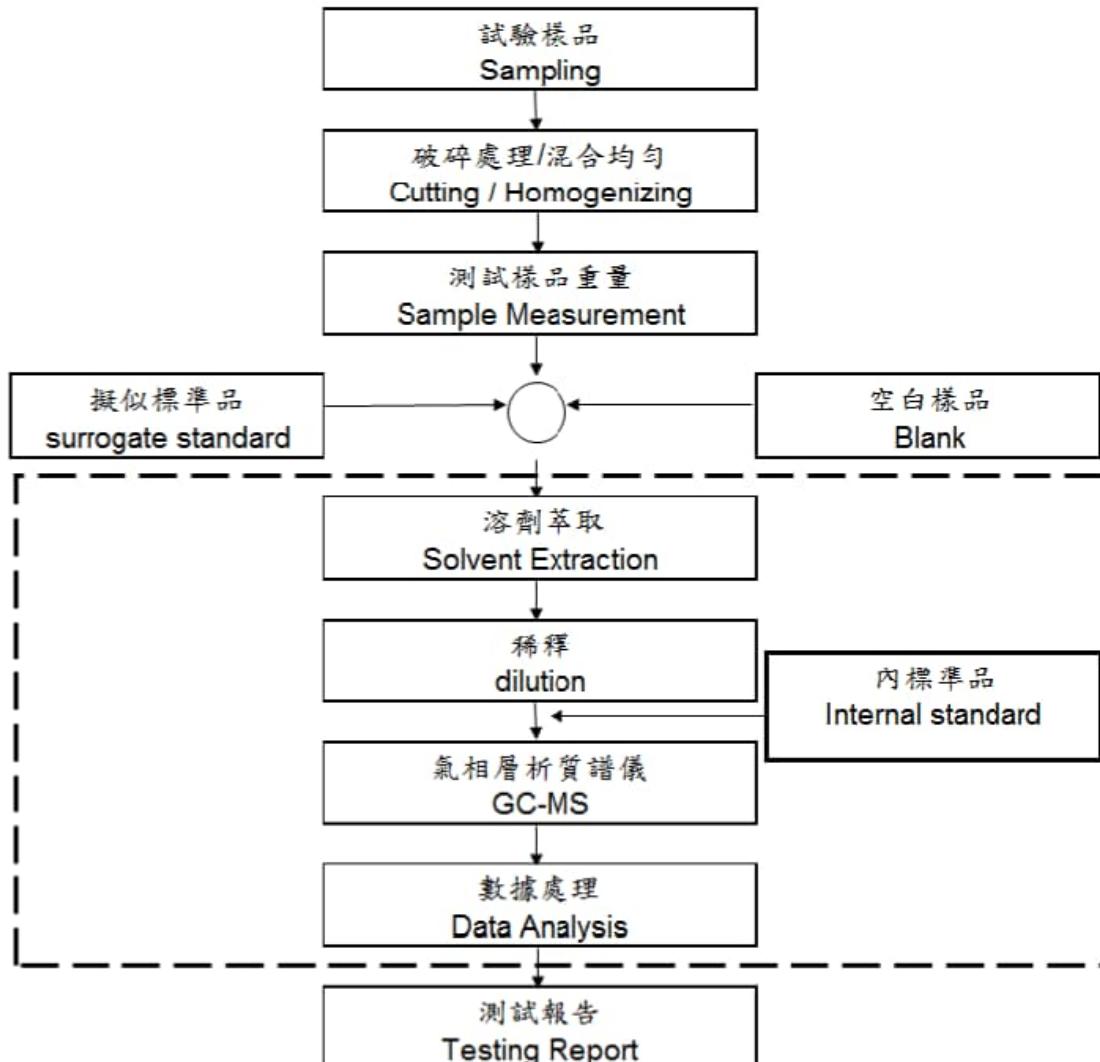
C. 流程圖/ Flow Chart



Flow Chart of Digestion-IEC 62321 for Pb、Cd、Hg (完全溶解/ Totally Dissolved)

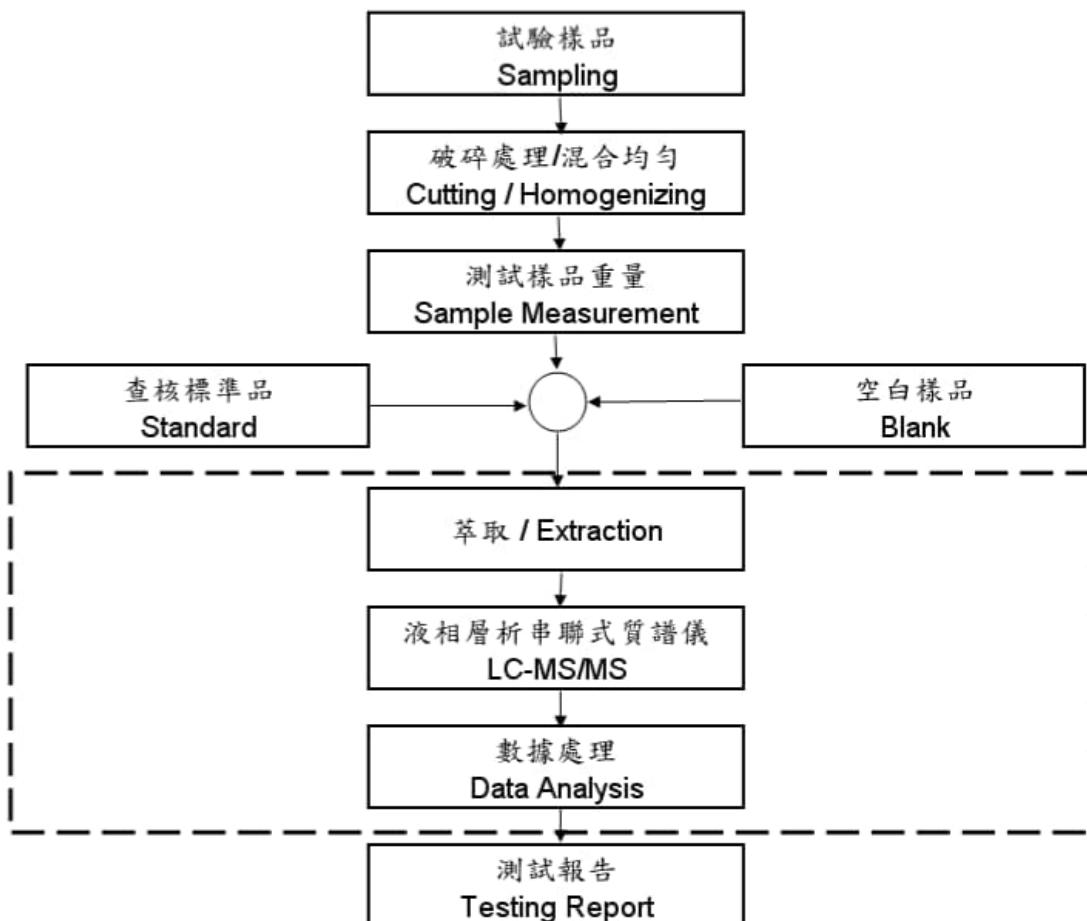
Flow Chart of Extraction-IEC 62321 for Cr⁶⁺

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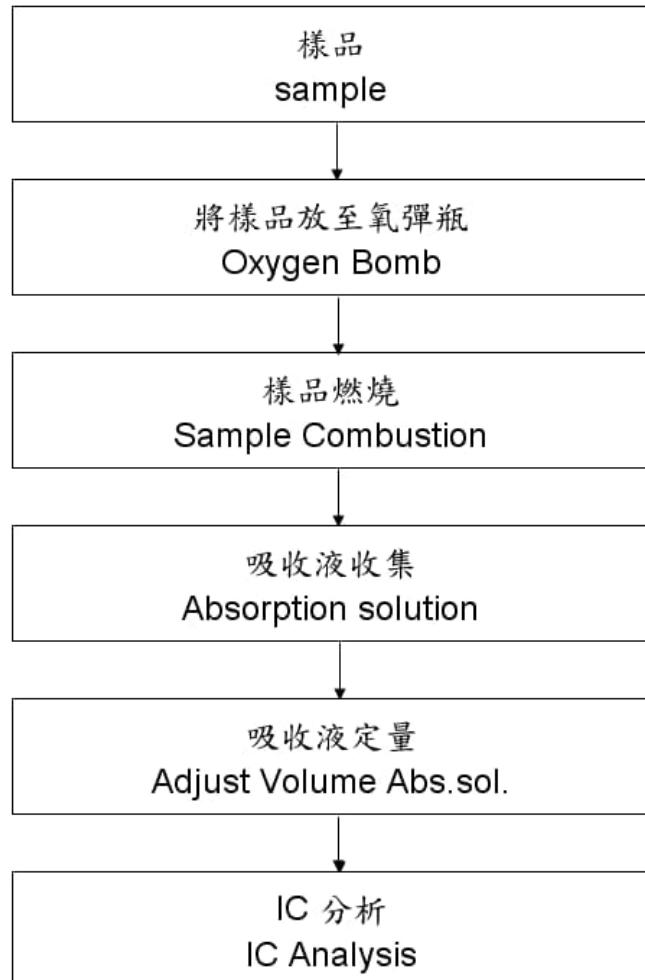
Flow Chart of Extraction-IEC 62321 for PBBs、PBDEs

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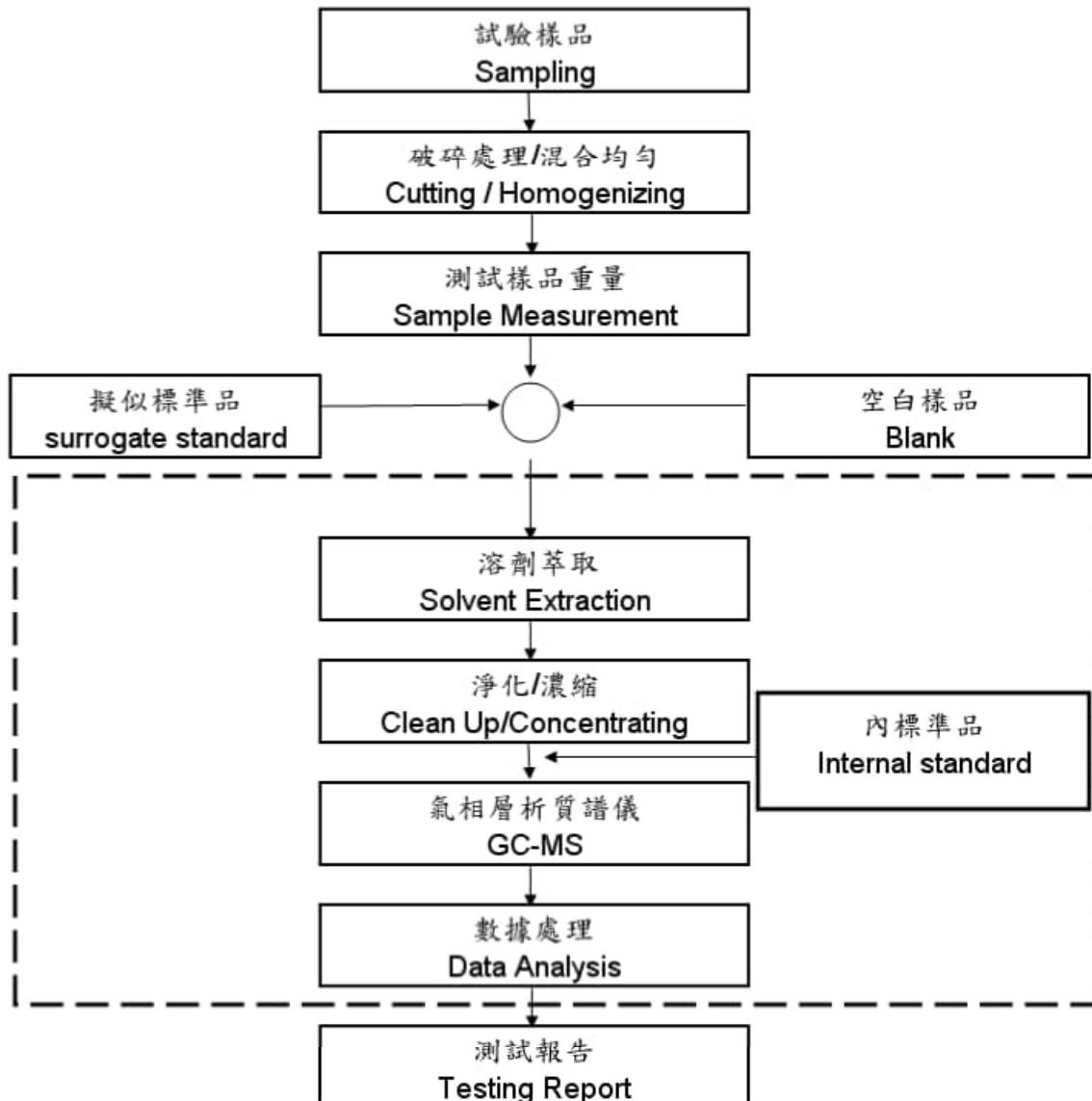
Flow Chart of Extraction for PFOS/PFOA

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Flow Chart of Extraction for Halogen

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Flow Chart of Extraction for Phthalates

---報告結尾/ End of Report ---

測試報告

Test Report

號碼(No.): ETR24902229M01

日期(Date): 23-Sep-2024

頁數(Page): 1 of 9

川裕工業股份有限公司 (CHUNG YU INDUSTRY CORPORATION)

桃園市平鎮區延平路三段618號 (NO. 618, SEC. 3, YANPING RD., PINGZHEN DIST., TAOYUAN CITY 324013, TAIWAN)

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

送樣廠商(Sample Submitted By) : 川裕工業股份有限公司 (CHUNG YU INDUSTRY CORPORATION)

樣品名稱(Sample Name) : INK(ZSR-150)W

樣品型號(Style/Item No.) : ZM-400WF, 400WF, ZM-400WF(HF), ZM-400WF-1, 400WF-1, ZM-400WF(N), ZM-400WB, ZM-480W, ZM-680W, WNY, WNA, WNB, NWB, WH, WM, WN, WL, WH(N), WH(H), 13A089, PC-W, IC-W, 100W, SW, 580W, SP-W, 2K-W, FMW, FMW-1, PHP-80K, PHP-90K, 928

=====

收件日(Sample Receiving Date) : 13-Sep-2024

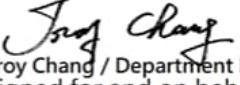
測試期間(Testing Period) : 13-Sep-2024 to 23-Sep-2024

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).)

請參閱下一頁 (Please refer to following pages.)

測試結果(Test Results)
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



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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

測試報告

Test Report

號碼(No.): ETR24902229M01

日期(Date): 23-Sep-2024

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川裕工業股份有限公司 (CHUNG YU INDUSTRY CORPORATION)

桃園市平鎮區延平路三段618號 (NO. 618, SEC. 3, YANPING RD., PINGZHEN DIST., TAOYUAN CITY 324013, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 白色塊狀 (WHITE LUMP)

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))	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.	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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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

測試報告

Test Report

號碼(No.): ETR24902229M01

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川裕工業股份有限公司 (CHUNG YU INDUSTRY CORPORATION)

桃園市平鎮區延平路三段618號 (NO. 618, SEC. 3, YANPING RD., PINGZHEN DIST., TAOYUAN CITY 324013, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
			No.1	n.d.	
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))	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(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))	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
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))	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
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)	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.	-

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測試報告

Test Report

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川裕工業股份有限公司 (CHUNG YU INDUSTRY CORPORATION)

桃園市平鎮區延平路三段618號 (NO. 618, SEC. 3, YANPING RD., PINGZHEN DIST., TAOYUAN CITY 324013, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
鄰苯二甲酸二異壬酯 (DINP) (Diisobutyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)	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.	-
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)	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.	-
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)	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.	-
鄰苯二甲酸二正戊酯 (DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0)	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.	-
鄰苯二甲酸二異戊酯 (DIPP) (Diisopentyl phthalate (DIPP)) (CAS No.: 605-50-5)	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.	-
鄰苯二甲酸雙(2-甲氧基乙基)酯 (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)	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.	-
鄰苯二甲酸二乙酯 (DEP) (Di-ethyl phthalate (DEP)) (CAS No.: 84-66-2)	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.	-
鄰苯二甲酸二甲酯 (DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3)	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.	-

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

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測試報告

Test Report

號碼(No.): ETR24902229M01

日期(Date): 23-Sep-2024

頁數(Page): 5 of 9

川裕工業股份有限公司 (CHUNG YU INDUSTRY CORPORATION)

桃園市平鎮區延平路三段618號 (NO. 618, SEC. 3, YANPING RD., PINGZHEN DIST., TAOYUAN CITY 324013, TAIWAN)

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決定規則，採用簡單允收規則之二分法($w=0$)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.)
6. 本報告為 ETR24902229 之異動報告。(This is the additional test report of ETR24902229.)

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頁數(Page): 6 of 9

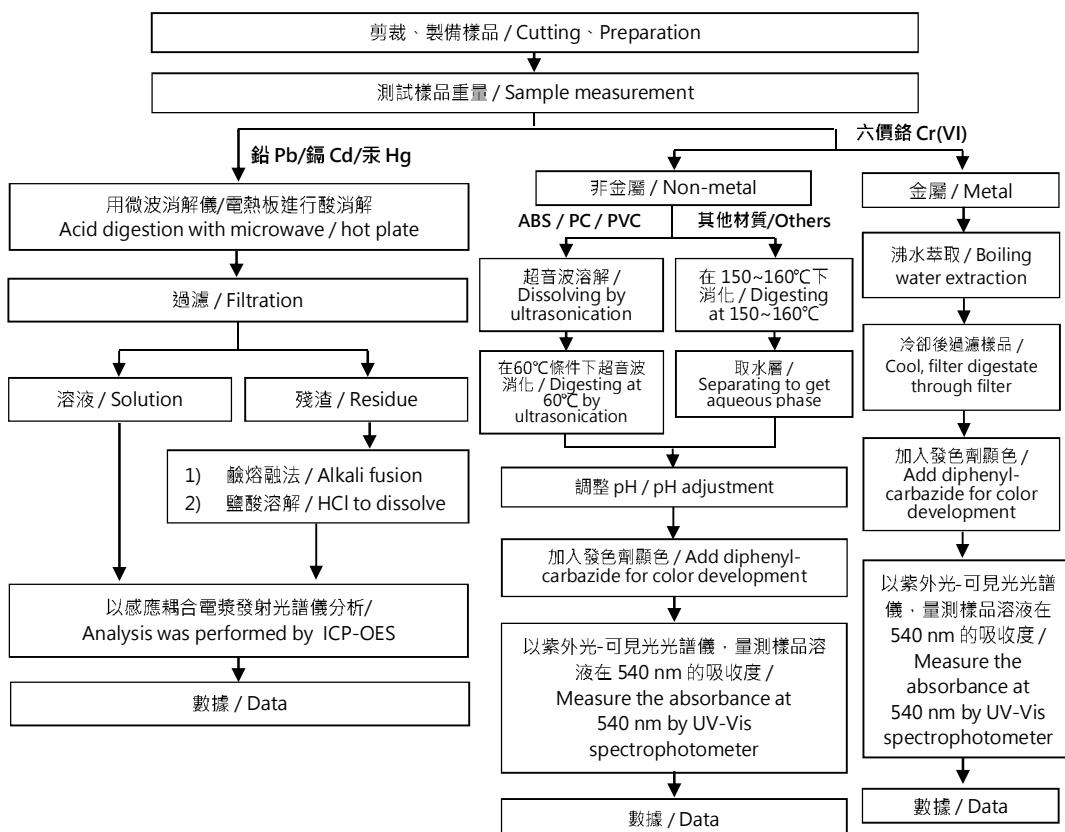
川裕工業股份有限公司 (CHUNG YU INDUSTRY CORPORATION)

桃園市平鎮區延平路三段618號 (NO. 618, SEC. 3, YANPING RD., PINGZHEN DIST., TAOYUAN CITY 324013, TAIWAN)

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

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）

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

(Cr⁶⁺ test method excluded)

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川裕工業股份有限公司 (CHUNG YU INDUSTRY CORPORATION)

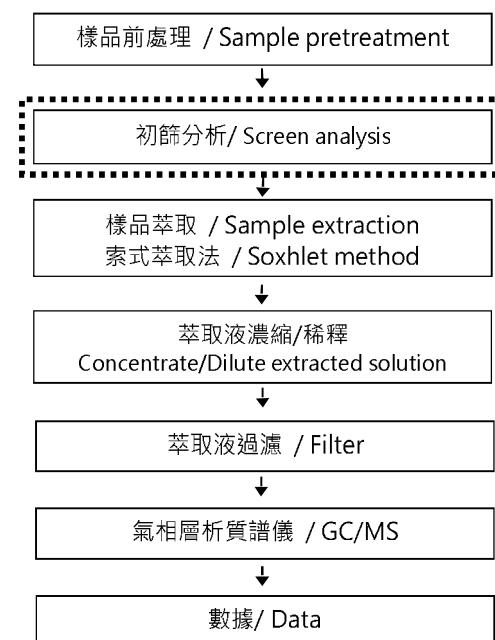
桃園市平鎮區延平路三段618號 (NO. 618, SEC. 3, YANPING RD., PINGZHEN DIST., TAOYUAN CITY 324013, TAIWAN)

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

初次測試程序 / First testing process →

選擇性篩檢程序 / Optional screen process ······

確認程序 / Confirmation process - - - →



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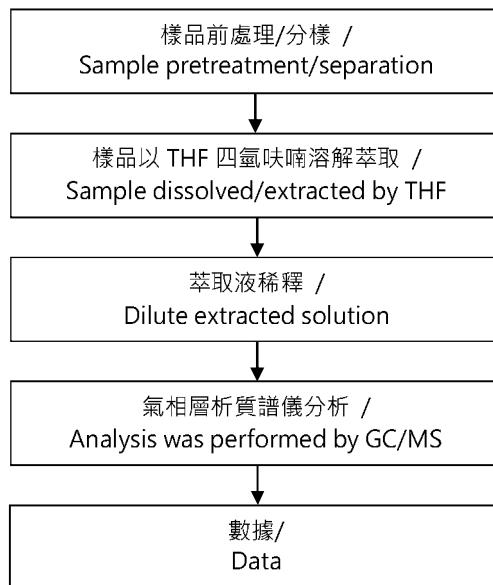
頁數(Page): 8 of 9

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桃園市平鎮區延平路三段618號 (NO. 618, SEC. 3, YANPING RD., PINGZHEN DIST., TAOYUAN CITY 324013, TAIWAN)

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

【測試方法/Test method: IEC 62321-8】



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* 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.)

ETR24902229



** 報告結尾 (End of Report) **

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測試報告 Test Report

號碼(No.): ETR25301579

日期(Date): 20-Mar-2025

頁數(Page): 1 of 44

南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)
南亞電子材料(昆山)有限公司 (NANYA ELECTRONIC MATERIALS (KUNSHAN) CORP. LTD.)
南亞電子材料(惠州)有限公司 (NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)
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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 HUZHOU CITY GUANG DONG)

以下測試樣品係由申請廠商所提供之確認 (The following sample(s) was/were submitted and identified by 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.) : 5120229

=====
收件日(Sample Receiving Date) : 10-Mar-2025
測試期間(Testing Period) : 10-Mar-2025 to 20-Mar-2025

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).)
請參閱下一頁 (Please refer to following pages.)

測試結果(Test Results) :
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: 47BA9CA3

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測試報告

Test Report

號碼(No.): ETR25301579

日期(Date): 20-Mar-2025

頁數(Page): 2 of 44

南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)
南亞電子材料(昆山)有限公司 (NANYA ELECTRONIC MATERIALS (KUNSHAN) CORP. LTD.)
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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))	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	6.47	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
鍍 (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.	-
氧化鍍 (BeO) (Beryllium oxide (BeO)) (CAS No.: 1304-56-9)	由鍍結果計算得之。(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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25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

測試報告

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	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.	-
多氯奈 (PCNs) (Polychlorinated naphthalene (PCNs))		mg/kg	5	n.d.	-
多氯三聯苯 (PCTs) (Polychlorinated terphenyls (PCTs))		mg/kg	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	
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.	-
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.	-
石綿 (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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測試報告

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南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

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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 HUZHOU 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	
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-di-tert-pentylphenol (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	1	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	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.	-
氫氟碳化合物 (Hydrofluorocarbon) (HFCs)					
HFC-23		mg/kg	1	n.d.	-
HFC-32		mg/kg	1	n.d.	-
HFC-41		mg/kg	1	n.d.	-
HFC-43-10mee		mg/kg	1	n.d.	-
HFC-125		mg/kg	1	n.d.	-
HFC-134		mg/kg	1	n.d.	-
HFC-134a	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-143		mg/kg	1	n.d.	-
HFC-143a		mg/kg	1	n.d.	-
HFC-152a		mg/kg	1	n.d.	-
HFC-227ea		mg/kg	1	n.d.	-
HFC-236fa		mg/kg	1	n.d.	-
HFC-236ea		mg/kg	1	n.d.	-
HFC-245ca		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		
HFC-245fa		mg/kg	1	n.d.	-
HFC-365mfc	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-236cb		mg/kg	1	n.d.	-
HFC-161		mg/kg	1	n.d.	-
HFC-152		mg/kg	1	n.d.	-
全氟化碳 (Perfluorocarbon) (PFCs)					
2-全氟甲基戊烷 (2-Perfluoromethylpentane) (CAS No.: 355-04-4)		mg/kg	1	n.d.	-
十氟丁烷 (Decafluorobutane) (CAS No.: 355-25-9)		mg/kg	1	n.d.	-
四氟甲烷 (Freon-14) (CAS No.: 75-73-0)		mg/kg	1	n.d.	-
六氟乙烷 (Fluorocarbon 116) (CAS No.: 76-16-4)	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.	-
八氟丙烷 (Freon 218) (CAS No.: 76-19-7)		mg/kg	1	n.d.	-
八氟環丁烷 (Freon C318) (CAS No.: 115-25-3)		mg/kg	1	n.d.	-
全氟己烷 (Perfluorohexane) (CAS No.: 355-42-0)		mg/kg	1	n.d.	-
全氟戊烷 (Perfluoro-n-pentane) (CAS No.: 678-26-2)		mg/kg	1	n.d.	-
全氟萘烷 (Perfluorodecalin) (CAS No.: 306-94-5)		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) No.1	限值 (Limit)
氟氯碳化物 (Chlorofluorocarbons) (CFCs)					
CFC-11		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	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-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.	-
氟氯氫烷碳化物 (Hydrochlorofluorocarbons) (HCFCs)					
HCFC-21		mg/kg	1	n.d.	-
HCFC-22		mg/kg	1	n.d.	-
HCFC-31		mg/kg	1	n.d.	-
HCFC-121	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-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.	-

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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-133		mg/kg	1	n.d.	-
HCFC-132		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	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.)				
HCFC-234		mg/kg	1	n.d.	-
HCFC-235		mg/kg	1	n.d.	-
HCFC-241		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.	-

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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 HUZHOU CITY GUANG DONG)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
			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.)				
海龍 (Halons)					
海龍-1211 (Halon-1211) (CAS No.: 353-59-3)		mg/kg	1	n.d.	-
海龍-1301 (Halon-1301) (CAS No.: 75-63-8)	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-2402 (Halon-2402) (CAS No.: 124-73-2)		mg/kg	1	n.d.	-
海龍-1202 (Halon-1202) (CAS No.: 75-61-6)		mg/kg	1	n.d.	-
不完全鹵化氟溴化物 (Hydrobromofluorocarbons) (HBFCs)					
HBFC-21B2		mg/kg	1	n.d.	-
HBFC-22B1		mg/kg	1	n.d.	-
HBFC-31B1		mg/kg	1	n.d.	-
HBFC-121B4	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-122B3		mg/kg	1	n.d.	-
HBFC-123B2		mg/kg	1	n.d.	-
HBFC-124B1		mg/kg	1	n.d.	-
HBFC-131B3		mg/kg	1	n.d.	-
HBFC-132B2		mg/kg	1	n.d.	-

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南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

南亞電子材料(昆山)有限公司 (NANYA ELECTRONIC MATERIALS (KUNSHAN) CORP. LTD.)

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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-133B1		mg/kg	1	n.d.	-
HBFC-141B2		mg/kg	1	n.d.	-
HBFC-142B1		mg/kg	1	n.d.	-
HBFC-151B1		mg/kg	1	n.d.	-
HBFC-221B6		mg/kg	1	n.d.	-
HBFC-222B5		mg/kg	1	n.d.	-
HBFC-223B4		mg/kg	1	n.d.	-
HBFC-224B3		mg/kg	1	n.d.	-
HBFC-225B2		mg/kg	1	n.d.	-
HBFC-226B1		mg/kg	1	n.d.	-
HBFC-231B5		mg/kg	1	n.d.	-
HBFC-232B4	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		mg/kg	1	n.d.	-
HBFC-234B2		mg/kg	1	n.d.	-
HBFC-235B1		mg/kg	1	n.d.	-
HBFC-241B4		mg/kg	1	n.d.	-
HBFC-242B3		mg/kg	1	n.d.	-
HBFC-243B2		mg/kg	1	n.d.	-
HBFC-244B1		mg/kg	1	n.d.	-
HBFC-251B1		mg/kg	1	n.d.	-
HBFC-252B2		mg/kg	1	n.d.	-
HBFC-253B1		mg/kg	1	n.d.	-
HBFC-261B2		mg/kg	1	n.d.	-
HBFC-262B1		mg/kg	1	n.d.	-
HBFC-271B1		mg/kg	1	n.d.	-

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25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
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.	-
1,1-二氯乙烷 (1,1-Dichloroethane) (CAS No.: 75-34-3)		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.	-

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

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南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)
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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 HUZHOU CITY GUANG DONG)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
			mg/kg	1	
四氯甲烷(四氯化碳) (Carbon tetrachloride) (CAS No.: 56-23-5)				n.d.	-
氯乙烷 (Chloroethane) (CAS No.: 75-00-3)				n.d.	-
氯仿 (Chloroform) (CAS No.: 67-66-3)				n.d.	-
氯甲烷 (Chloromethane) (CAS No.: 74-87-3)				n.d.	-
順-1,2-二氯乙烯 (cis-1,2-Dichloroethene) (CAS No.: 156-59-2)				n.d.	-
順-1,3-二氯丙烯 (cis-1,3-Dichloropropene) (CAS No.: 10061-01-5)				n.d.	-
六氯-1,3-丁二烯 (Hexachlorobutadiene) (CAS No.: 87-68-3)	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.)			n.d.	-
二氯甲烷 (Dichloromethane) (CAS No.: 75-09-2)				n.d.	-
四氯乙烯 (Tetrachloroethene) (CAS No.: 127-18-4)				n.d.	-
反-1,2-二氯乙烯 (trans-1,2-Dichloroethene) (CAS No.: 156-60-5)				n.d.	-
反-1,3-二氯丙烯 (trans-1,3-Dichloropropene) (CAS No.: 10061-02-6)				n.d.	-
三氯乙烯 (Trichloroethylene) (CAS No.: 79-01-6)				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	
六氟化硫 (Sulfur hexafluoride) (CAS No.: 2551-62-4)	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.	-
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.	-
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.	-
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.	-
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.	-
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

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)	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.	-
鄰苯二甲酸二苯酯 (DPhP) (Diphenyl phthalate (DPhP)) (CAS No.: 84-62-8)		mg/kg	50	n.d.	-
鄰苯二甲酸二苯甲基酯 (Dibenzylo 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.	-

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25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

測試報告

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南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

南亞電子材料(昆山)有限公司 (NANYA ELECTRONIC MATERIALS (KUNSHAN) CORP. LTD.)

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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 HUZHOU CITY GUANG DONG)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
鄰苯二甲酸二正壬酯 (DNNP) (Di-n-nonyl phthalate (DNNP)) (CAS No.: 84-76-4)	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.	-
鄰苯二甲酸二乙酯 (DEP) (Di-ethyl phthalate (DEP)) (CAS No.: 84-66-2)		mg/kg	50	n.d.	-
鄰苯二甲酸二正戊酯 (DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0)		mg/kg	50	n.d.	-
鄰苯二甲酸雙(2-甲氧基乙基)酯 (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)		mg/kg	50	n.d.	-
鄰苯二甲酸二異戊酯 (DIPP) (Diisopentyl phthalate (DIPP)) (CAS No.: 605-50-5)		mg/kg	50	n.d.	-
鄰苯二甲酸二(C6-8支鏈)烷基酯 · 富C7 (DIHP) (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)) (CAS No.: 71888-89-6)		mg/kg	50	n.d.	-
鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯 (DHNUP) (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)) (CAS No.: 68515-42-4)		mg/kg	50	n.d.	-
鄰苯二甲酸二(支鏈與直鏈)己基酯 (DHP) (1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)) (CAS No.: 68515-50-4)		mg/kg	50	n.d.	-

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南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

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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	
鄰苯二甲酸正戊異戊酯 (NPIPP) (N-pentyl iso-pentyl phthalate (NPIPP)) (CAS No.: 776297-69-9)	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(支鏈及直鏈戊基)酯 (DPP) (1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)) (CAS No.: 84777-06-0)		mg/kg	50	n.d.	-
紅磷 (Red Phosphorus)	以熱裂解-氣相層析儀/質譜儀分析。(Analysis was performed by Pyrolyzer-GC/MS.)	**	-	Negative	-
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (Perfluorooctane sulfonates and its salts (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-乙基全氟正辛磺醯胺 (EtFOSA) (N-ethylperfluoro-1-octanesulfonamide (EtFOSA)) (CAS No.: 4151-50-2)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
N-甲基全氟正辛磺醯胺 (N-Me-FOSA) (N-Methyl-Perfluorooctanesulfonamide (N-Me-FOSA)) (CAS No.: 31506-32-8)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
N-乙基全氟辛基磺醯胺乙醇 (N-Et-FOSE alcohol) (N-Ethyl-Perfluorooctanesulfonamidoethanol (N-Et-FOSE alcohol)) (CAS No.: 1691-99-2)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
N-甲基全氟辛基磺醯胺乙醇 (N-Me-FOSE alcohol) (N-Methyl-Perfluorooctanesulfonamidoethanol (N-Me-FOSE alcohol)) (CAS No.: 24448-09-7)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛基磺醯胺及其鹽類 (PFOSA and its salts) (Perfluorooctanesulfonamide and its salts (PFOSA and its salts)) (CAS No.: 754-91-6 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.	-
全氟辛酸及其鹽類 (PFOA and its salts) (Perfluorooctanoic acid and its salts (PFOA and its salts)) (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.)	mg/kg	0.01	n.d.	-
全氟辛酸甲酯 (Me-PFOA) (Methyl perfluorooctanoate (Me-PFOA)) (CAS No.: 376-27-2)	參考CEN/TS 15968: 2010 · 以氣相層析質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
全氟辛酸乙酯 (Et-PFOA) (Ethyl perfluorooctanoate (Et-PFOA)) (CAS No.: 3108-24-5)	參考CEN/TS 15968: 2010 · 以氣相層析質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
全氟辛基碘烷 (PFOL) (Perfluoro-1-iodooctane (PFOL)) (CAS No.: 507-63-1)	參考CEN/TS 15968: 2010 · 以氣相層析質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
3-全氟庚基丙酸 (7:3 FTCA) (3-Perfluoroheptyl propanoic acid (7:3 FTCA)) (CAS No.: 812-70-4)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
1H,1H,2H,2H-全氟癸磺酸及其鹽類 (8:2 FTS and its salts) (1H,1H,2H,2H-Perfluorodecanesulfonic acid and its salts (8:2 FTS and its salts)) (CAS No.: 39108-34-4 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.	-
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)) (CAS No.: 678-39-7)	參考CEN/TS 15968: 2010 · 以氣相層析質譜儀及液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS and LC/MS/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA) (1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)) (CAS No.: 27905-45-9)	參考CEN/TS 15968: 2010 · 以氣相層析質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟癸基甲基丙烯酸酯 (8:2 FTMA) (1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)) (CAS No.: 1996-88-9)	參考CEN/TS 15968: 2010 · 以氣相層析質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
2H,2H-全氟癸酸及其鹽類 (H2PFDA and its salts) (2H,2H-Perfluorodecane acid and its salts (H2PFDA and its salts)) (CAS No.: 27854-31-5 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.	-
1H,1H,2H,2H-全氟癸基碘 (8_2 FTI) (1H,1H,2H,2H-Perfluorodecyl iodide (8_2 FTI)) (CAS No.: 2043-53-0)	參考CEN/TS 15968: 2010 · 以氣相層析質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
1H,1H,2H,2H-全氟十七烷三甲基氧矽烷 (8:2 FTSi(OC ₂ H ₅) ₃) (1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)) (CAS No.: 101947-16-4)	參考CEN/TS 15968: 2010 · 以氣相層析質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
2H,2H,3H,3H-全氟癸酸及其鹽類 (4HPFUnA and its salts) (2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (4HPFUnA and its salts)) (CAS No.: 34598-33-9 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.	-
1H,1H,2H-全氟-1-癸烯 (PFDE) (1H,1H,2H-Heptadecafluoro-1-decene (PFDE)) (CAS No.: 21652-58-4)	參考CEN/TS 15968: 2010 · 以氣相層析質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
雙(1H,1H,2H,2H-全氟癸基)磷酸酯及其鹽類 (8_2diPAP and its salts) (Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate and its salts (8_2diPAP and its salts)) (CAS No.: 678-41-1 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.	-
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	56600	-
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	360	-

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25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

測試報告

Test Report

號碼(No.): ETR25301579

日期(Date): 20-Mar-2025

頁數(Page): 21 of 44

南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

南亞電子材料(昆山)有限公司 (NANYA ELECTRONIC MATERIALS (KUNSHAN) CORP. LTD.)

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

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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 HUZHOU CITY GUANG DONG)

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. 石綿定性分析試驗範圍 : <0.1%~100% . 石綿鑑定的判定基準是以檢出含有石綿纖維為『Positive』 . 未檢出石綿纖維為『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".)
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
氧化鋁 (Beryllium oxide (BeO))	鋁 (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. 鍍青銅是一種主要成份為鋁及銅的合金, 當偵測不到總鋁含量時, 亦表示不含鍍青銅。

(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.)

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11. 除非另有說明，參照ILAC-G8:09/2019決定規則，採用簡單允收規則之二分法($w=0$)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 ETR25301578 之樣品測試結果。(The some test results of this report were quoted from ETR25301578.)

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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(C ₂ H ₄ OH)2) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C ₂ H ₄ 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
	全氟辛基磺酸四丁基銨 (PFOS-N(C ₄ H ₉) ₄) TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7

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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-heptadecafluorooctanesulfonate	71463-74-6
	全氟辛烷磺酸鹽 Perfluorooctanesulfonate (anion)	45298-90-6
	全氟辛烷磺酸與 N,N-二乙基乙胺 (1:1) (PFOS-N(C ₂ H ₅) ₃) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N(C ₂ H ₅) ₃)	54439-46-2
	N,N,N-三甲基-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸甲銨 (1:1) (PFOS-N(CH ₃) ₄) Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH ₃) ₄)	56773-44-5
	1-五胺 · N,N,N-三丙基-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽(1:1) (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) 1-Pantanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
	1-丁銨 · N,N-二丁基-N-甲基- · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽 (1:1) (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0

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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)	碘鎵 · 雙[4-(1,1-二甲基乙基)苯基]- · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 -十七氟-1-辛烷磺酸鹽 (1:1) Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8
	二苯基鎵(2,4,6-三甲基苯基)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 -十七氟-1-辛烷磺酸鹽 (1:1) Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0
	吡啶鎵 · 1-十六烷基- · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 -十七氟-1-辛烷磺酸鹽 (1:1) Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4
	1-癸胺 · N,N,N-三乙基- · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 -十七氟-1-辛烷磺酸鹽 (1:1) 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4
	全氟辛烷磺酸四丁基鎵 (PFOS-P(C ₄ H ₉) ₄)) Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C ₄ H ₉) ₄))	2185049-59-4
	全氟辛烷磺酸二乙胺鹽 (PFOS-C ₄ H ₁₁ N) Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7
	庚基二甲基[2-[(2-甲基丙-2-烯酰基)氧基]乙基]全氟辛烷磺酸氮紫鹽 (PFOS-C ₁₅ H ₃₀ NO ₂) Heptyldimethyl[2-[(2-methylprop-2-enoyl)oxy]ethyl]azanium perfluorooctanesulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3
	1-辛烷磺酸 · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 -十七氟-1,1'-酸酐 (PFOSAN) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-1,1'-anhydride (PFOSAN)	423-92-7

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOSA, 及其鹽 (PFOSA, its salts)	全氟辛基磺醯胺 (Perfluorooctanesulfonamide) (PFOSA)	754-91-6
	全氟辛基磺醯胺鋰鹽 (1:1) (PFOSA-Li) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
	全氟辛基磺醯胺鈉鹽 (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
	全氟辛基磺醯胺鉀鹽 (1:1) (PFOSA-K) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
	全氟辛基磺醯胺銨鹽 (1:1) (PFOSA-NH ₄) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2
	全氟辛基磺醯胺三乙胺的化合物(1:1) (PFOSA-C ₆ H ₁₅ N) heptadecafluorooctane-1-sulphonamide, compound with triethylamine(1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4
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 perfluorooctanoate (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
	全氟辛酸鈷 (PFOA-Co) Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	全氟辛酸銫 (PFOA-Cs) Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸鉻 (PFOA-Cr(3 ⁺)) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3 ⁺))	68141-02-6
	全氟辛酸-哌嗪(2:1) PFOA-NH(C ₄ H ₁₀ N) Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C ₄ H ₁₀ N)	423-52-9
	全氟辛酸鹽 Pentadecafluorooctanoate (anion)	45285-51-6
	全氟辛酸酐 Perfluorooctanoic Anhydride	33496-48-9
	乙銨 · N,N,N-三乙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸 (1:1) Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9
	全氟辛酸四甲銨鹽 Tetramethylammoniumperfluorooctanoat	32609-65-7
	1-丙銨 · N,N,N-三丙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1) 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	277749-00-5
	辛酸 · 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟-鉀鹽 · 水合物 (1:1:2) (PFOA-K(H ₂ O) ₂) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H ₂ O) ₂)	98065-31-7
	辛酸 · 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟- · 化合物。與乙胺 (1:1) (PFOA-C ₂ H ₇ N) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6
	十五氟辛酸化合物與吡啶 (1:1) (9Cl) (PFOA-C ₅ H ₅ N) Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9Cl) (PFOA-C ₅ H ₅ N)	95658-47-2

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	十五氟辛酸-1-苯基哌嗪(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) Pentadecafluoroctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
	1-辛胺 · N,N,N-三甲基- 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1) (PFOA- C ₁₁ H ₂₆ N) 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoroctanoate (1:1) (PFOA- C ₁₁ H ₂₆ N)	927835-01-6
8:2 FTS, 及其鹽 (8:2 FTS, its salts)	1H,1H,2H,2H-全氟癸磺酸 (1H,1H,2H,2H-Perfluorodecanesulfonic acid) (8:2 FTS)	39108-34-4
	1H, 1H, 2H, 2H-全氟癸磺酸鉀 (8:2 FTS-K) 1H,1H,2H,2H-Perfluorodencane sulfonate acid Potassium salt (8:2 FTS-K)	438237-73-1
	1H, 1H, 2H, 2H-全氟癸磺酸銨 (8:2 FTS-NH ₄) 1H,1H,2H,2H-Perfluorodencane sulfonate acid Ammonium salt (8:2 FTS-NH ₄)	149724-40-3
	1H, 1H, 2H, 2H-全氟癸磺酸鈉 (8:2 FTS-Na) 1H,1H,2H,2H-Perfluorodencane sulfonate acid Sodium salt (8:2 FTS-Na)	27619-96-1
	1H,1H,2H,2H-全氟癸磺酸鹽 (8:2 FTS(anion)) 8: 2 Fluorotelomer sulfonate (anion) (8:2 FTS(anion))	481071-78-7
H2PFDA, 及其鹽 (H2PFDA, its salts)	2H,2H-全氟癸酸 (2H,2H-Perfluorodecane acid) (H2PFDA)	27854-31-5
	四丁基磷2H,2H-全氟癸酸酯 Tetrabutylphosphonium 2H,2H-Perfluorodecanoate	882489-14-7
4HPFUnA, 及其鹽 (4HPFUnA, its salts)	2H,2H,3H,3H-全氟癸酸 (2H,2H,3H,3H-Perfluoroundecanoic Acid) (4HPFUnA)	34598-33-9
	2H,2H,3H,3H-全氟癸酸鉀 (H4PFUnA-K) Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H4PFUnA-K)	83310-58-1
	2H,2H,3H,3H-全氟癸酸鋰 (H4PFUnA-Li) Lithium 3-(perfluorooctyl)propanoate (H4PFUnA-Li)	67304-23-8

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
8:2diPAP, 及其鹽 (8:2diPAP, its salts)	雙(1H,1H,2H,2H-全氟癸基)磷酸酯 (Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate) (8:2diPAP)	678-41-1
	雙(1H,1H,2H,2H-全氟癸基)磷酸酯鈉 (8:2diPAP-Na) Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6
	雙(2-羥乙基)雙((全氟辛基)乙基)磷酸氫銨 Bis(2-hydroxyethyl)ammonium bis((perfluoroctyl)ethyl)hydrogen phosphate	57677-97-1
	雙[2-(全氟辛基)乙基]磷酸銨鹽 (8:2diPAP-NH ₄) Bis[2-(perfluoroctyl)ethyl] phosphate ammonium salt (8:2diPAP-NH ₄)	93776-20-6
	8:2 氟調聚物磷酸二酯離子 8:2 Fluorotelomer phosphate diester ion	1411713-91-1

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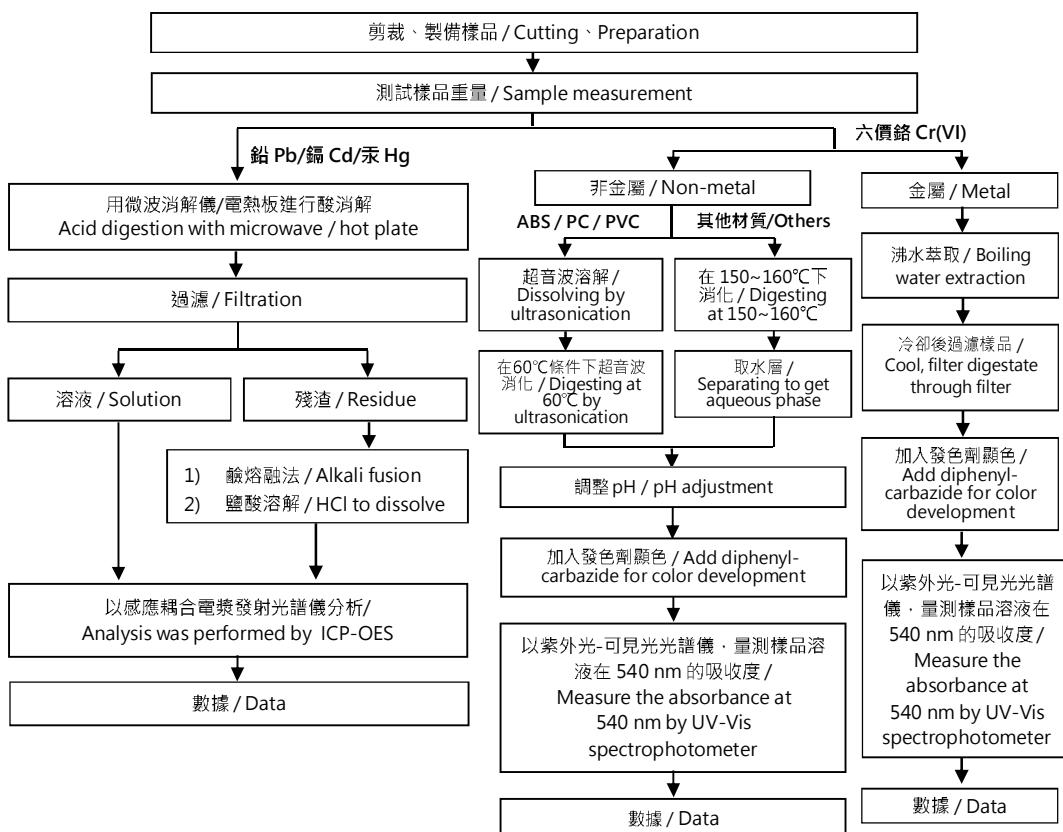
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重金屬流程圖 / Analytical flow chart of heavy metal

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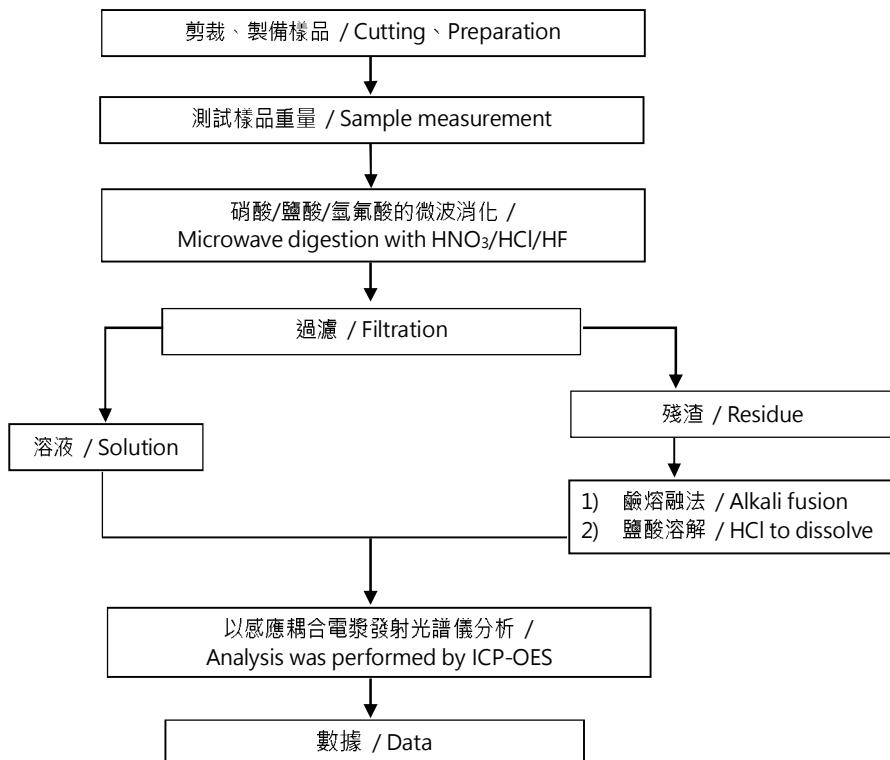
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元素(含重金屬)分析流程圖 / Analytical flow chart of elements (Heavy metal included)

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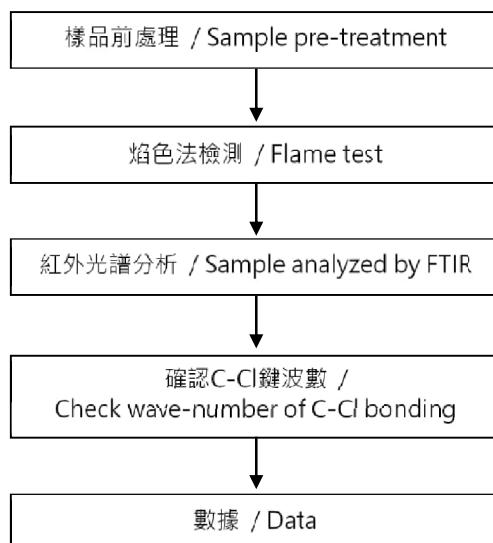
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC



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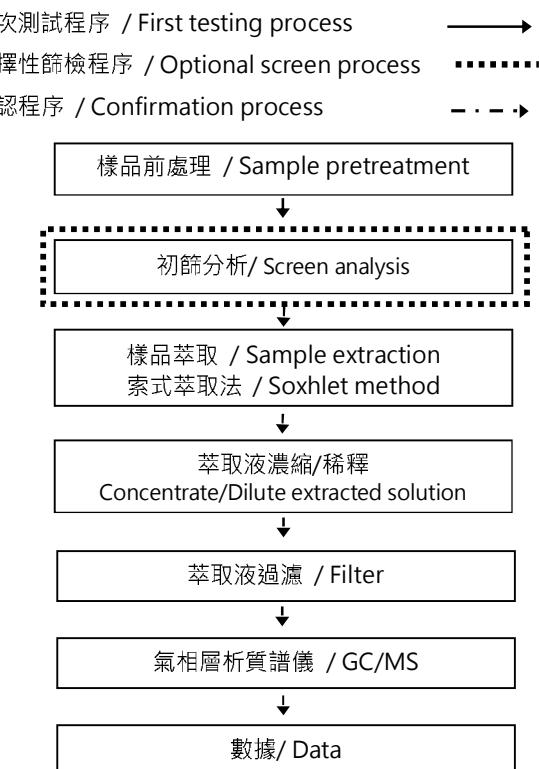
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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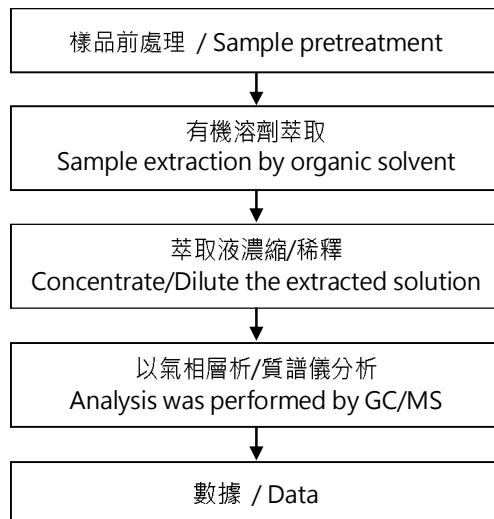
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分析流程圖 / Analytical flow chart

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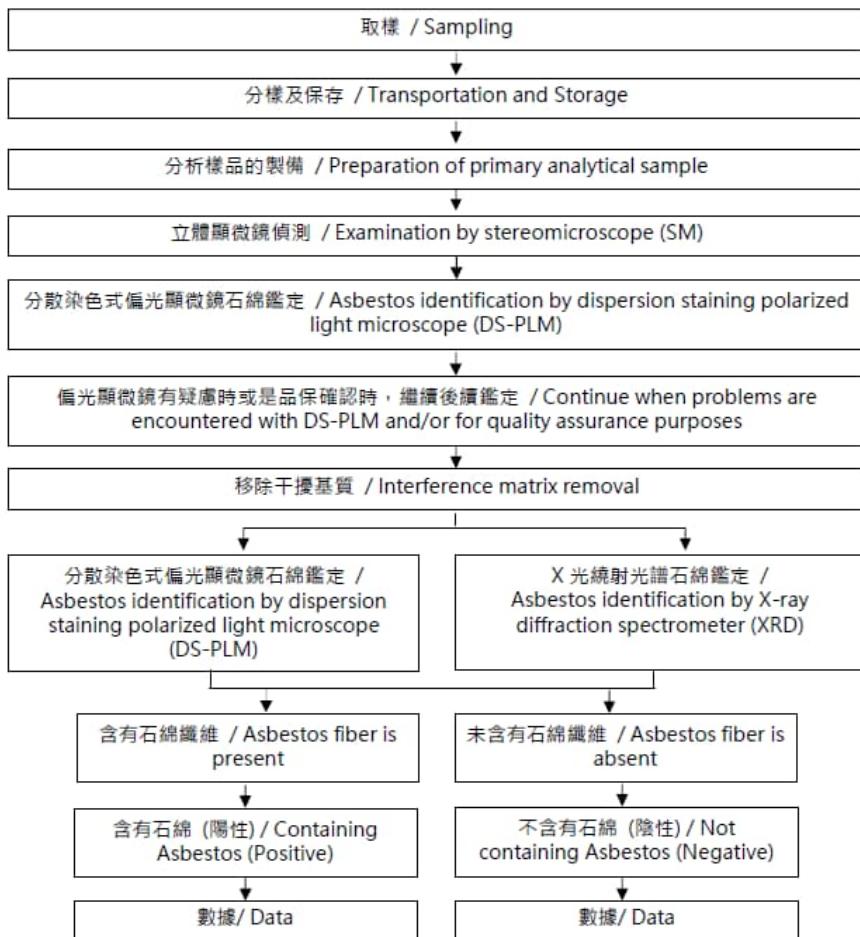
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石綿鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

【參考方法(Reference method): EPA 600/R-93/116】



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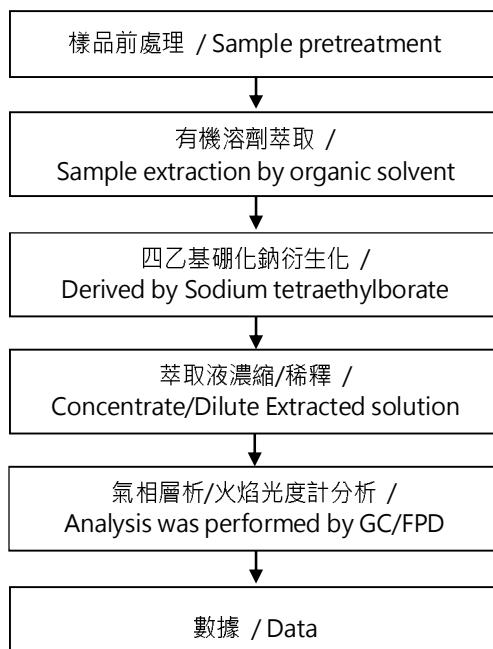
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有機錫分析流程圖 / Analytical flow chart - Organic-Tin



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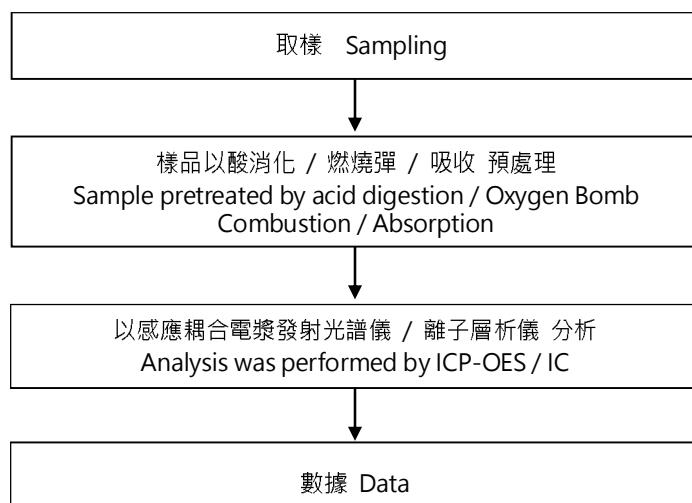
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二氯化鈷分析流程圖 / Analytical flow chart - Cobalt dichloride



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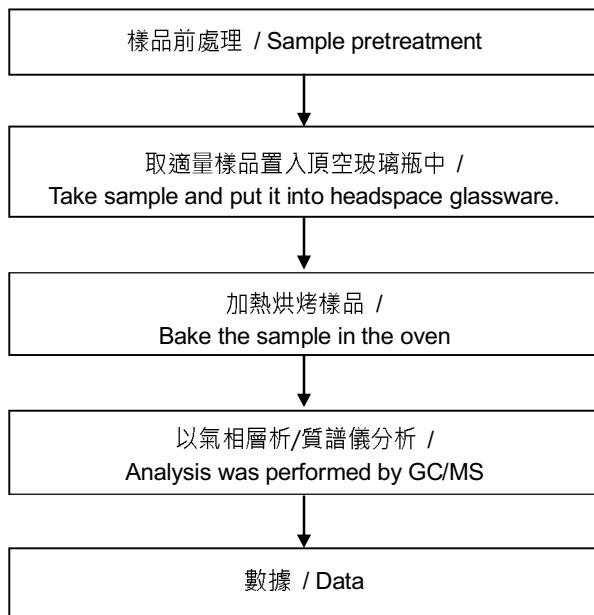
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揮發性有機化合物分析流程圖 / Analytical flow chart of volatile organic compounds (VOCs)

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



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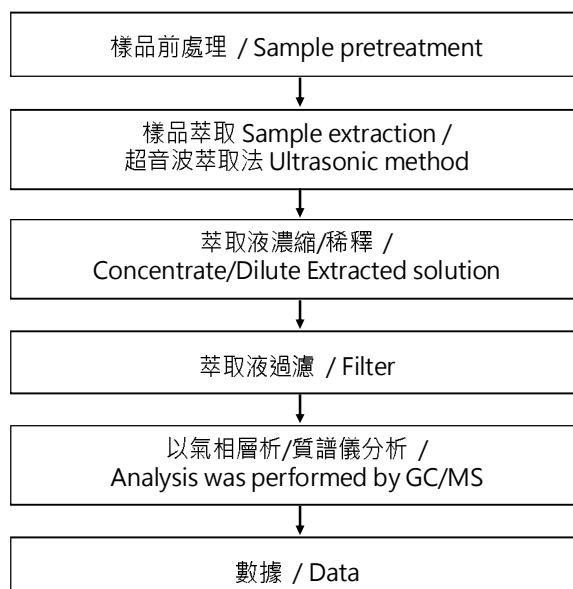
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分析流程圖 / Analytical flow chart

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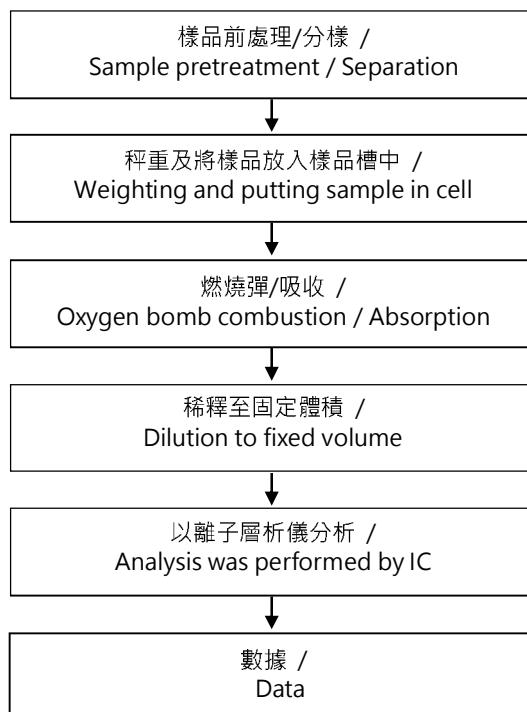
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鹵素分析流程圖 / Analytical flow chart - Halogen



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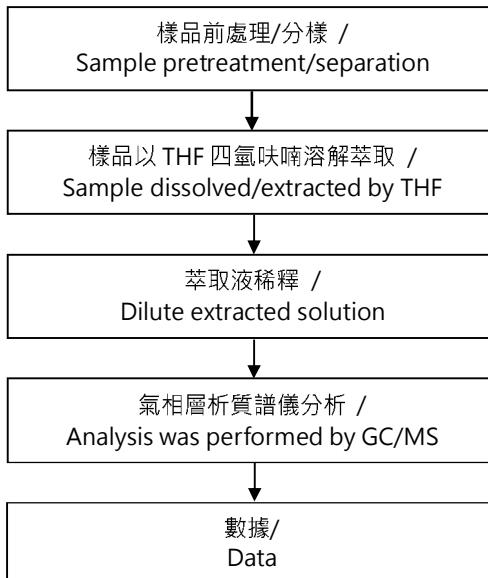
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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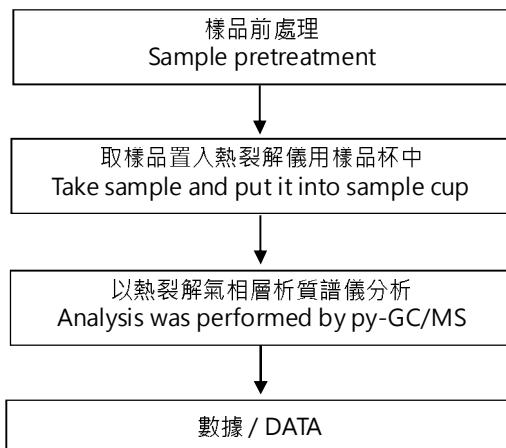
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紅磷分析流程 / Analytical flow chart - Red phosphorus



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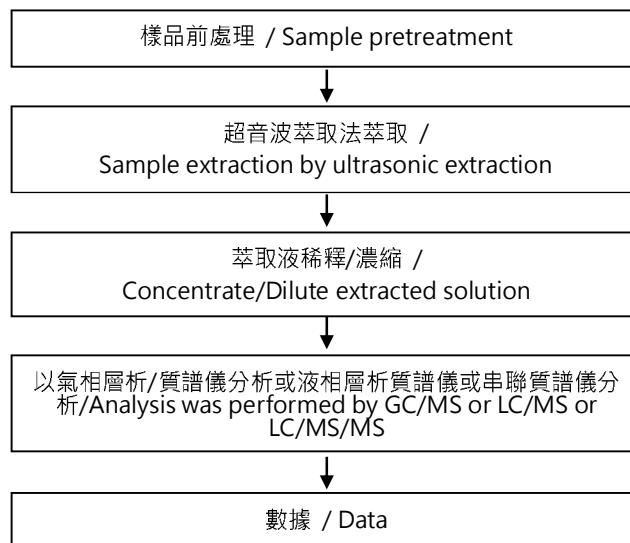
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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow**chart – PFAS (including PFOA/PFOS/its related compound, etc.)**

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測試報告

Test Report

南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

南亞電子材料(昆山)有限公司 (NANYA ELECTRONIC MATERIALS (KUNSHAN) CORP. LTD.)

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

台北市內湖區南京東路六段380號 (NO. 380, SEC. 6, NANJING E. RD., NEIHU DIST., TAIPEI CITY 114030, TAIWAN, R.O.C.)

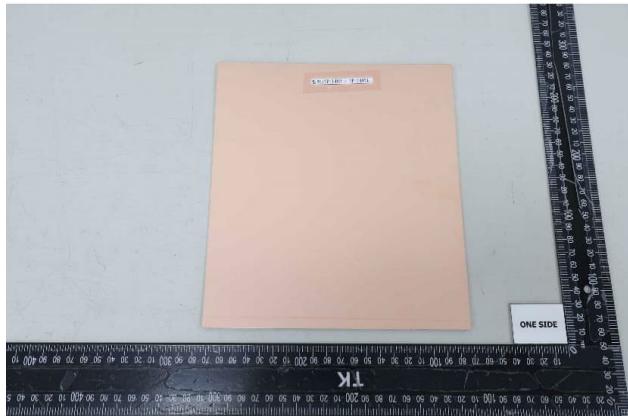
江蘇省昆山市昆山經濟技術開發區長江南路201號 (201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, KUNSHAN, JIANG SU, CHINA 215300)

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 HUZHOU CITY GUANG DONG)

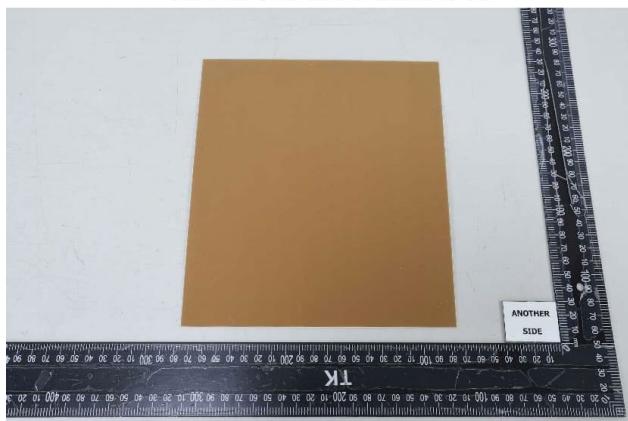
* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位.*

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

ETR25301579



ETR25301579



** 報告結尾 (End of Report) **

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新北市五股區新北產業園區五權七路 25 號 t+886(02)2299 3939 f+886(02)2299 3237

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

測試報告

Test Report

號碼(No.): ETR24804846

日期(Date): 09-Sep-2024

頁數(Page): 1 of 13

台灣太陽油墨股份有限公司 (TAIWAN TAIYO INK CO., LTD.)

桃園市觀音區觀音工業區大同二路7號 (NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, TAIWAN (R.O.C.))

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

送樣廠商(Sample Submitted By) : 台灣太陽油墨股份有限公司 (TAIWAN TAIYO INK CO., LTD.)

樣品名稱(Sample Name) : PHOTOIMAGEABLE SOLDER RESIST (二液性顯像型防焊油墨)

樣品型號(Style/Item No.) : PSR-2000 LF02/CA-25 LF01
UL : PSR-2000BK/CA-25BK

顏色(Color) : 綠色 (GREEN)

=====

收件日(Sample Receiving Date) : 28-Aug-2024

測試期間(Testing Period) : 28-Aug-2024 to 09-Sep-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)
結論(Conclusion) : (1) 請參閱下一頁 (Please refer to following pages.)
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: AE7AD4AF

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台灣太陽油墨股份有限公司 (TAIWAN TAIYO INK CO., LTD.)

桃園市觀音區觀音工業區大同二路7號 (NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 綠色片狀 (GREEN 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))	參考IEC 62321-5: 2013, analysis was performed by ICP-OES.)	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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台灣太陽油墨股份有限公司 (TAIWAN TAIYO INK CO., LTD.)

桃園市觀音區觀音工業區大同二路7號 (NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, 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(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
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (Perfluorooctane sulfonates and its salts (PFOS and its salts)) (CAS No.: 1763-23-1 and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022，以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛酸及其鹽類 (PFOA and its salts) (Perfluorooctanoic acid and its salts (PFOA and its salts)) (CAS No.: 335-67-1 and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022，以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試報告

Test Report

號碼(No.): ETR24804846

日期(Date): 09-Sep-2024

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台灣太陽油墨股份有限公司 (TAIWAN TAIYO INK CO., LTD.)

桃園市觀音區觀音工業區大同二路7號 (NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, 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. 除非另有說明，參照ILAC-G8:09/2019決定規則，採用簡單允收規則之二分法($w=0$)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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台灣太陽油墨股份有限公司 (TAIWAN TAIYO INK CO., LTD.)

桃園市觀音區觀音工業區大同二路7號 (NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, TAIWAN (R.O.C.))

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
	全氟辛基磺酸四丁基銨 (PFOS-N(C ₄ H ₉) ₄) TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
	全氟辛基磺酸氟 (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

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

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測試報告

Test Report

號碼(No.): ETR24804846

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台灣太陽油墨股份有限公司 (TAIWAN TAIYO INK CO., LTD.)

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	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-heptadecafluoroctanesulfonate	71463-74-6
	全氟辛烷磺酸鹽 Perfluoroctanesulfonate (anion)	45298-90-6
	全氟辛烷磺酸與 N,N-二乙基乙胺 (1:1) (PFOS-N(C ₂ H ₅) ₃) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N(C ₂ H ₅) ₃)	54439-46-2
	N,N,N-三甲基-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸 甲銨(1:1) (PFOS-N(CH ₃) ₄) Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH ₃) ₄)	56773-44-5
	1-五氫-N,N,N-三丙基-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽(1:1) (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) 1-Pantanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
	1-丁銨-N,N-二丁基-N-甲基-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽(1:1) (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0
	碘鎘·雙[4-(1,1-二甲基乙基)苯基]-·1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽(1:1) Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8
	二苯基鎘(2,4,6-三甲基苯基)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽(1:1) Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0
	吡啶鎘·1-十六烷基-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽(1:1) Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4

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測試報告

Test Report

號碼(No.): ETR24804846

日期(Date): 09-Sep-2024

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台灣太陽油墨股份有限公司 (TAIWAN TAIYO INK CO., LTD.)

桃園市觀音區觀音工業區大同二路7號 (NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, TAIWAN (R.O.C.))

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	1-癸胺 · N,N,N-三乙基- · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽(1:1) 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4
	全氟辛烷磺酸四丁基銨 (PFOS-P(C ₄ H ₉) ₄) Tetrabutylphosphonium perfluoroctane sulfonate (PFOS-P(C ₄ H ₉) ₄))	2185049-59-4
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛烷磺酸二乙胺鹽 (PFOS-C ₄ H ₁₁ N) Perfluoroctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N) 庚基二甲基{2-[2-(2-甲基丙-2-烯酰基)氨基]乙基}全氟辛烷磺酸氮紫鹽 (PFOS-C ₁₅ H ₃₀ NO ₂) Heptyldimethyl{2-[2-(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluoroctanesulfonate (PFOS-C ₁₅ H ₃₀ NO ₂) 1-辛烷磺酸 · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1,1'-酸酐 (PFOSAN) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	2205029-08-7 1203998-97-3 423-92-7
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸 (Perfluoroctanoic acid) (PFOA) 全氟辛酸鈉 (PFOA-Na) Sodium perfluoroctanoate (PFOA-Na) 全氟辛酸鉀 (PFOA-K) Potassium perfluoroctanoate (PFOA-K) 全氟辛酸銀 (PFOA-Ag) Silver perfluoroctanate (PFOA-Ag) 全氟辛氟 (PFOA-F) Perfluoroctanoyl fluoride (PFOA-F) 全氟辛酸銨 (APFO) Ammonium pentadecafluoroctanoate (APFO) 全氟辛酸鋰 (PFOA-Li) Lithium perfluoroctanoate (PFOA-Li) 全氟辛酸鈷 (PFOA-Co) Cobalt perfluoroctanoate (PFOA-Co) 全氟辛酸銫 (PFOA-Cs) Cesium perfluoroctanoate (PFOA-Cs)	335-67-1 335-95-5 2395-00-8 335-93-3 335-66-0 3825-26-1 17125-58-5 35965-01-6 17125-60-9

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測試報告

Test Report

號碼(No.): ETR24804846

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桃園市觀音區觀音工業區大同二路7號 (NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, TAIWAN (R.O.C.))

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸鉻 (PFOA-Cr(3+)) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6
	全氟辛酸-哌嗪(2:1) PFOA-NH(C ₄ H ₁₀ N) Pentadecafluoroctanoic acid-piperazine (2/1)PFOA-NH(C ₄ H ₁₀ N)	423-52-9
	全氟辛酸鹽 Pentadecafluoroctanoate (anion)	45285-51-6
	全氟辛酸酐 Perfluoroctanoic Anhydride	33496-48-9
	乙銨 · N,N,N-三乙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸 (1:1) Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoroctanoate (1:1)	98241-25-9
	全氟辛酸四甲銨鹽 Tetramethylammoniumperfluoroctanoat	32609-65-7
	1-丙銨 · N,N,N-三丙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸 (1:1) 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoroctanoate (1:1)	277749-00-5
	辛酸 · 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟-鉀鹽 · 水合物 (1:1:2) (PFOA-K(H ₂ O) ₂) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H ₂ O) ₂)	98065-31-7
	辛酸 · 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟- · 化合物 · 與乙胺 (1:1) (PFOA-C ₂ H ₇ N) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6
	十五氟辛酸化合物與吡啶 (1:1) (9Cl) (PFOA-C ₅ H ₅ N) Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9Cl) (PFOA-C ₅ H ₅ N)	95658-47-2
	十五氟辛酸-1-苯基哌嗪(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) Pentadecafluoroctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
	1-辛胺 · N,N,N-三甲基- · 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸 (1:1) (PFOA- C ₁₁ H ₂₆ N) 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoroctanoate (1:1) (PFOA- C ₁₁ H ₂₆ N)	927835-01-6

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新北市五股區新北產業園區五權七路 25 號 t+886(02)2299 3939 f+886(02)2299 3237

測試報告

Test Report

號碼(No.): ETR24804846

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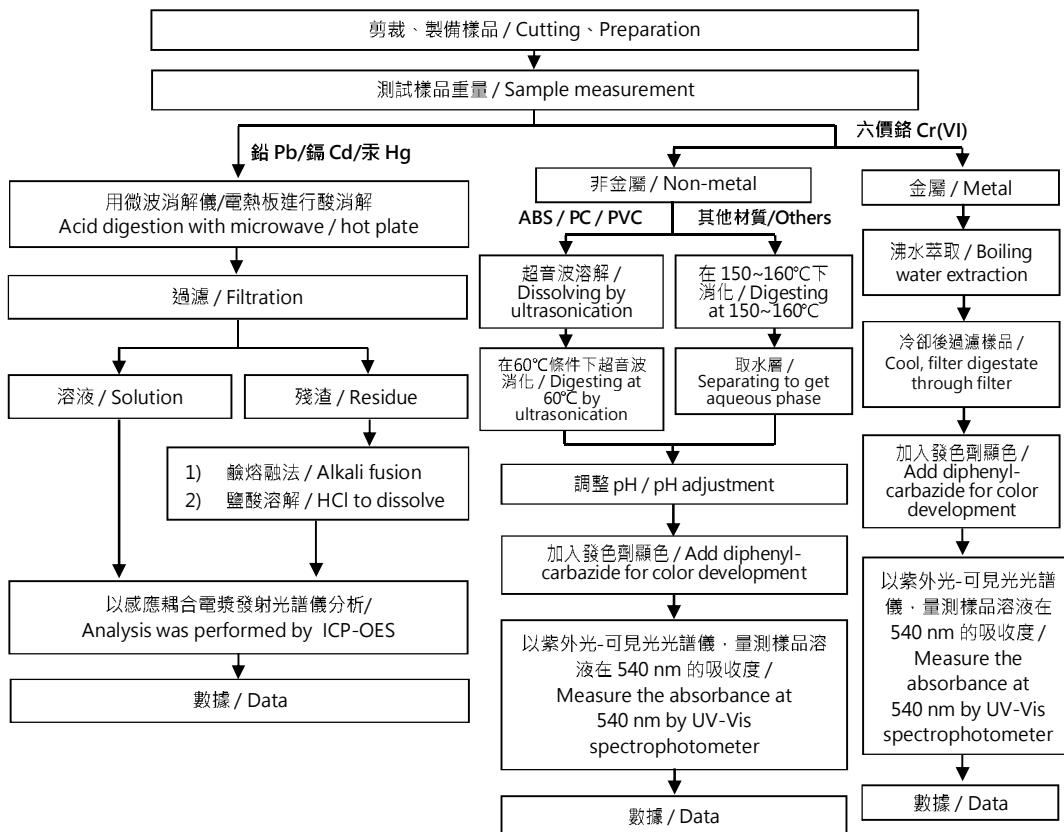
台灣太陽油墨股份有限公司 (TAIWAN TAIYO INK CO., LTD.)

桃園市觀音區觀音工業區大同二路7號 (NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, 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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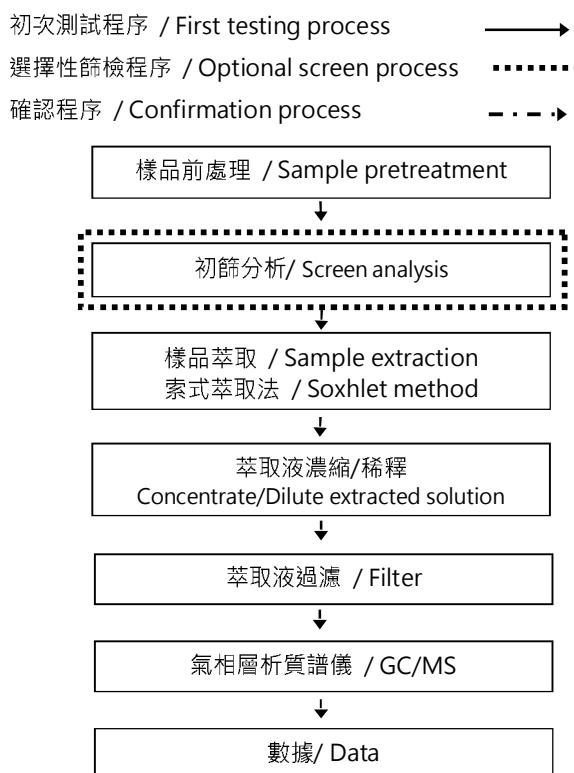
日期(Date): 09-Sep-2024

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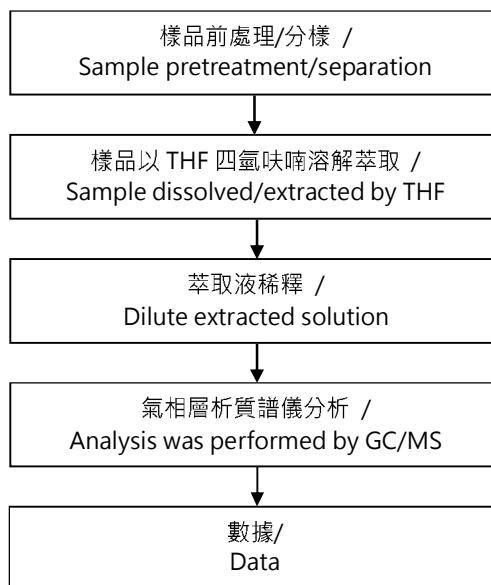
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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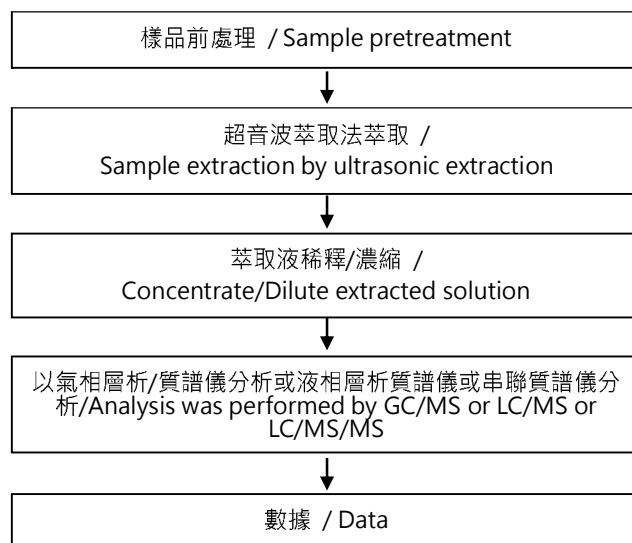
日期(Date): 09-Sep-2024

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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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* 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.)

ETR24804846



** 報告結尾 (End of Report) **

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Issue Date: 2024-09-09

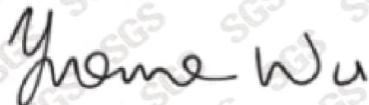
Attention: To check the authenticity/inspection report & certificate, please contact us at telephone: (886)222993279#3000, or email: rsts.tw@sgs.com

VERIFICATION OF CONFORMITY for SGS RoHS REQUIREMENTS

Product	: PHOTOIMAGEABLE SOLDER RESIST
Test requested by	: TAIWAN TAIYO INK CO., LTD.
Name and address of the manufacturer	: TAIWAN TAIYO INK CO., LTD. NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, TAIWAN (R.O.C.)
Name and address of the factory	: TAIWAN TAIYO INK CO., LTD. NO. 7, DATONG 2ND RD., GUANYIN INDUSTRY PARK, GUANYIN DIST., TAOYUAN CITY 328, TAIWAN (R.O.C.)
Trademark	: N/A
Model/ Identification	: PSR-2000 LF02/CA-25 LF01 (UL: PSR-2000BK/CA-25BK)
Conclusion	: The assessed sample made available complies with the limits of Pb, Hg, Cd, Cr (VI), PBBs, PBDEs, DEHP, BBP, DBP, DIBP as set by SGS RoHS Certification Rules.
Sufficient samples of the product have been analysed according to the following scope	: Pb, Hg, Cd, Cr (VI), PBBs, PBDEs, DEHP, BBP, DBP, DIBP according to standard IEC 62321-4: 2013+AMD1: 2017, IEC 62321-5: 2013, IEC 62321-6: 2015, IEC 62321-7-2: 2017, IEC 62321-8: 2017.
As shown in the report	: ETR24804846
Date of expiry	: 2025-09-09

This Verification of Conformity is based on analysis of the product, component or material and verifying the documentation being in accordance with the provisions of the SGS RoHS Certification Rules on the restriction of the use of certain hazardous substances in electrical and electronic equipment. It does not imply an assessment of the production. No amounts above the limits of these substances have been detected or if so, specific exemptions are applicable. This result relates only to the item(s) tested.

Authorized Signatory



Yvonne WU
Project Manager
SGS



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