

**Test Report** 

號碼(No.): EKR24C01549 日期(Date): 30-Dec-2024 頁數(Page): 1 of 21

義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.)

無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.)

臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722)

無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

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

\_\_\_\_\_\_

送樣廠商(Sample Submitted By)

: 義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.)

樣品名稱(Sample Name)

: EPOXY MOLDING COMPOUND

樣品型號(Style/Item No.)

: ELER-8-SERIES

收件日(Sample Receiving Date)

: 23-Dec-2024

測試期間(Testing Period)

: 23-Dec-2024 to 30-Dec-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 鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

測試結果(Test Results)

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

結 論(Conclusion)

(1) 根據客戶所提供的樣品,其編、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

報告簽署人/張伯睿 博士/部 图理**SGS**Ray Chang, Ph.D./ Department Manager
Signed for and on behalf
SGS TAIWAN LTD.

化學實驗室-高雄/Chemical Laboratory-Kaohsiung



PIN CODE: 0406CBE



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#### 測試部位敘述 (Test Part Description)

No.1 : 黑色 EPOXY MOLDING COMPOUND (BLACK EPOXY MOLDING COMPOUND)

#### 測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013 · 以感應耦合電漿	mg/kg	2	n.d.	100
	發射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013,以感應耦合電漿	mg/kg	2	n.d.	1000
	發射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017,	mg/kg	2	n.d.	1000
	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.)				
六價鉻 Cr(VI) (Hexavalent Chromium	參考IEC 62321-7-2: 2017,以紫外光-可見	mg/kg	8	n.d.	1000
Cr(VI))	光分光光度計分析。(With reference to	_			
	IEC 62321-7-2: 2017, analysis was				
	performed by UV-VIS.)				



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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
一溴聯苯 (Monobromobiphenyl)		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)	參考IEC 62321-6: 2015,以氣相層析儀/質	mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)	譜儀分析。(With reference to IEC 62321-	mg/kg	ı	n.d.	1000
一溴聯苯醚 (Monobromodiphenyl ether)	6: 2015, analysis was performed by	mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)	GC/MS.)	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



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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)
(rest items)	(Welled)	(Onit)		No.1	(2)
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.	1000
phthalate (BBP))					
鄰苯二甲酸二丁酯 (DBP) (Dibutyl		mg/kg	50	n.d.	1000
phthalate (DBP))					
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl		mg/kg	50	n.d.	1000
phthalate (DIBP))					
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-		mg/kg	50	n.d.	1000
(2-ethylhexyl) phthalate (DEHP))					
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl		mg/kg	50	n.d.	-
phthalate (DINP)) (CAS No.: 28553-12-					
0, 68515-48-0)					
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質	mg/kg	50	n.d.	-
phthalate (DIDP)) (CAS No.: 26761-40-	譜儀分析。(With reference to IEC 62321-				
0, 68515-49-1)	8: 2017, analysis was performed by				
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl	GC/MS.)	mg/kg	50	n.d.	-
phthalate (DNOP)) (CAS No.: 117-84-0)					
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl		mg/kg	50	n.d.	=-
phthalate (DNHP)) (CAS No.: 84-75-3)					
鄰苯二甲酸二(2-甲氧基乙基)酯 (DMEP)		mg/kg	50	n.d.	-
(Bis(2-methoxyethyl) phthalate (DMEP))					
(CAS No.: 117-82-8)					
鄰苯二甲酸二異戊酯 (DIPP) (Diisopentyl		mg/kg	50	n.d.	-
phthalate (DIPP)) (CAS No.: 605-50-5)					
鄰苯二甲酸正戊異戊酯 (NPIPP) (N-pentyl		mg/kg	50	n.d.	-
iso-pentyl phthalate (NPIPP)) (CAS No.:					
776297-69-9)					



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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鄰苯二甲酸二正戊酯 (DNPP) (Di-n-		mg/kg	50	n.d.	-
pentyl phthalate (DNPP)) (CAS No.:	參考IEC 62321-8: 2017 · 以氣相層析儀/質				
131-18-0)	譜儀分析。(With reference to IEC 62321-				
鄰苯二甲酸雙十一烷基酯 (DUP)	8: 2017, analysis was performed by	mg/kg	50	n.d.	-
(Diundecyl phthalate (DUP)) (CAS No.:	GC/MS.)				
3648-20-2)					
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-		mg/kg	50	n.d.	-
8)					
氯 (CI) (Chlorine (CI)) (CAS No.: 22537-	]   参考BS EN 14582: 2016·以離子層析儀分	mg/kg	50	94.1	-
15-1)	析。(With reference to BS EN 14582:				
溴 (Br) (Bromine (Br)) (CAS No.: 10097-	2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
32-2)	2010, analysis was performed by ic.)				
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	=
全氟辛烷磺酸及其鹽類 (PFOS and its	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	=
salts) (Perfluorooctane sulfonates and	聯質譜儀分析。(With reference to				
its salts (PFOS and its salts)) (CAS No.:	CEN/TS 15968: 2010, analysis was				
1763-23-1 and its salts)	performed by LC/MS/MS.)				
全氟辛酸及其鹽類 (PFOA and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
(Perfluorooctanoic acid and its salts	聯質譜儀分析。(With reference to				
(PFOA and its salts)) (CAS No.: 335-67-1	CEN/TS 15968: 2010, analysis was				
and its salts)	performed by LC/MS/MS.)				



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測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
六溴環十二烷及所有主要被辨別出的異構物(HRCDD) (% HRCDD) (% HRCDD)	参考IEC 62321: 2008・以氣相層析儀/質譜	mg/kg	5	n.d.	-
物(HBCDD) (α- HBCDD, β- HBCDD, γ-	儀分析。(With reference to IEC 62321:				
HBCDD) (Hexabromocyclododecane (HBCDD) and all major	2008, analysis was performed by GC/MS.)				
diastereoisomers identified (α- HBCDD,	GC/IVI3.)				
$\beta$ - HBCDD, $\gamma$ - HBCDD)) (CAS No.:					
25637-99-4, 3194-55-6 (134237-51-7,					
134237-50-6, 134237-52-8))					
	<b> </b>	**		Namativa	
聚氯乙烯 (Polyvinyl chloride) (PVC)	参考ASTM E1252: 2021 · 以傅立葉轉換紅	^^	_	Negative	-
	外線光譜儀及焰色法分析。(With				
	reference to ASTM E1252: 2021, analysis				
A* (CL) (A .: (CL)) (CA CA) 7440	was performed by FT-IR and Flame Test.)		2	<u> </u>	
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-	参考US EPA 3052: 1996・以感應耦合電漿	mg/kg	2	n.d.	-
36-0)	發射光譜儀分析。(With reference to US				
	EPA 3052: 1996, analysis was performed				
ft (Da) (Damillium (Da)) (CACNIa : 7440	by ICP-OES.)	100 or /l cor	2	.a. al	
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-	参考US EPA 3052: 1996・以感應耦合電漿	mg/kg	2	n.d.	-
41-7)	發射光譜儀分析。(With reference to US				
	EPA 3052: 1996, analysis was performed by ICP-OES.)				
Τὰ (Λε) (Λεορίε (Λε)) (CΛΕ No : 7440	参考US EPA 3052: 1996 · 以感應耦合電漿	ma/ka	2	n.d.	
砷 (As) (Arsenic (As)) (CAS No.: 7440- 38-2)	参与US EPA 3052: 1996 · 以愿應稱戶電線   發射光譜儀分析。(With reference to US	mg/kg	2	n.a.	-
36-2)	-				
	EPA 3052: 1996, analysis was performed by ICP-OES.)				
	by ici OL3.)				



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#### 備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. \*\*= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到/未檢出); Positive = Detectable 陽性(已偵測到/檢出)
- 7. 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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#### 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.
	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 <sub>4</sub> ) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	29081-56-9
DEOC 及甘曆の公开地	全氟辛基磺酸二乙醇銨 (PFOS-NH(OH) <sub>2</sub> ) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )	70225-14-8
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛基磺酸四乙基銨 (PFOS-N( $C_2H_5$ ) $_4$ ) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N( $C_2H_5$ ) $_4$ )	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 <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> ) TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	111873-33-7
	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	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( $C_2H_5$ ) <sub>3</sub> ) 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( $C_2H_5$ ) <sub>3</sub> )	54439-46-2
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	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 <sub>3</sub> ) <sub>4</sub> ) 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 <sub>3</sub> ) <sub>4</sub> )	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( $C_3H_7$ ) $_3$ ( $C_5H_{11}$ )) 1-Pentanaminium, 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( $C_3H_7$ ) $_3$ ( $C_5H_{11}$ ))	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 <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> )) 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 <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))	124472-68-0
	碘鎓·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) lodonium, 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



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義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.) 無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.)

臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722)

無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	二苯基鍺(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 334529-63-4
	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)	334323 03 4
PFOS, 及其鹽&衍生物	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
(PFOS, its salts & derivatives)	全氟辛烷磺酸四丁基磷 (PFOS-P( $C_4H_9)_4$ )) Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P( $C_4H_9)_4$ ))	2185049-59-4
	全氟辛烷磺酸二乙胺鹽 (PFOS- $C_4H_{11}N$ ) Perfluorooctanesulfonic acid diethylamine salt (PFOS- $C_4H_{11}N$ )	2205029-08-7
	庚基二甲基 $\{2-[(2-甲基丙-2-烯酰基)氧基]乙基}全氟辛烷磺酸氮紮鹽 (PFOS-C15H30NO2) Heptyldimethyl\{2-[(2-methylprop-2-enoyl)oxy]ethyl\}azanium perfluorooctanesulfonate (PFOS-C15H30NO2)$	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, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7
	全氟辛酸 (Perfluorooctanoic acid) (PFOA)	335-67-1
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3



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義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.) 無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.) 臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722) 無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	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
	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
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸-哌嗪(2:1) PFOA-NH(C <sub>4</sub> H <sub>10</sub> N) Pentadecafluorooctanoic acidpiperazine (2/1)PFOA-NH(C <sub>4</sub> H <sub>10</sub> 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 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-pentadecafluorooctanoate (1:1)	277749-00-5



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
	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 <sub>2</sub> O) <sub>2</sub> ) 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 <sub>2</sub> O) <sub>2</sub> )	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 <sub>2</sub> H <sub>7</sub> 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 <sub>2</sub> H <sub>7</sub> N)	1376936-03-6
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	十五氟辛酸化合物與吡啶 (1:1) (9CI) (PFOA- $C_5H_5N$ ) Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA- $C_5H_5N$ )	95658-47-2
	十五氟辛酸-1-苯基哌嗪(1:1) (PFOA- $C_{10}H_{14}N_2$ ) Pentadecafluorooctanoic 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- $C_{11}H_{26}N$ )	927835-01-6



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義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.)

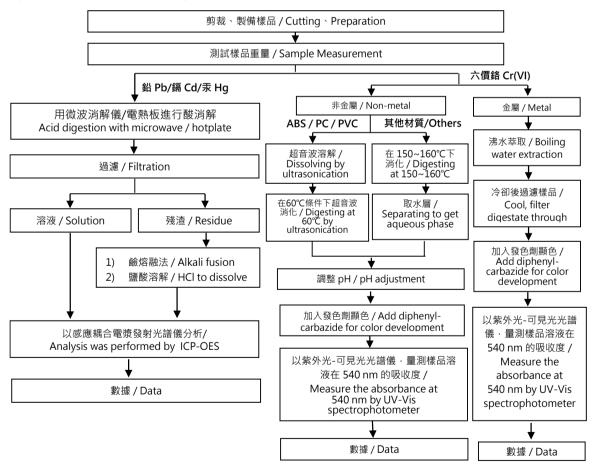
無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.)

臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722) 無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

#### 重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

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



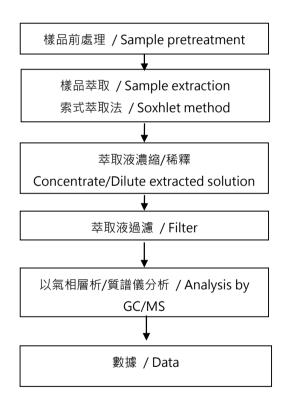


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義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.) 無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.) 臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722) 無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

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





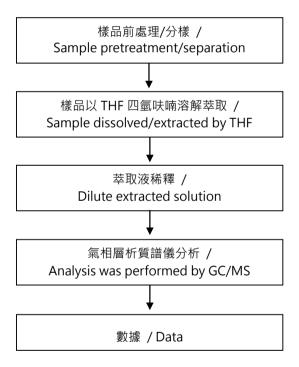
# **Test Report**

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義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.) 無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.) 臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722) 無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

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

【測試方法/Test method: IEC 62321-8】



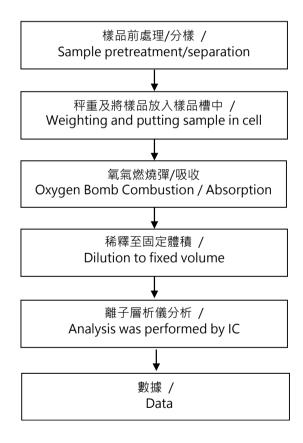


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義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.) 無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.) 臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722) 無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

#### 鹵素分析流程圖 / Analytical flow chart of Halogen



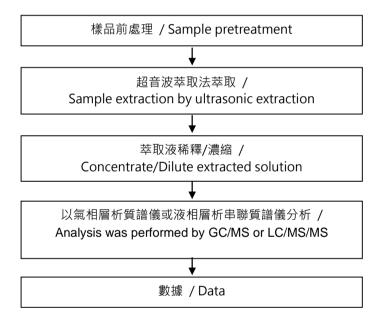


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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



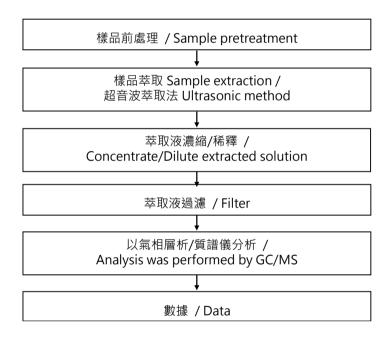


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#### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



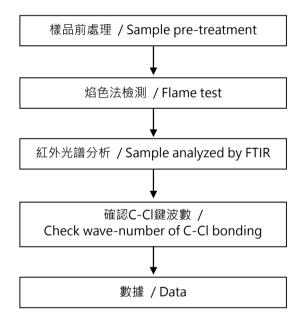


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義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.) 無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.) 臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722) 無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

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





# **Test Report**

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義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.) 無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.) 臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722)

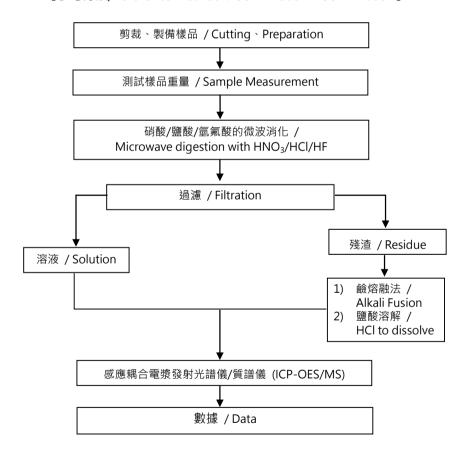
無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

#### 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.

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



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



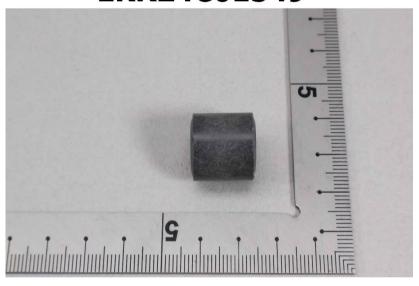
## **Test Report**

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義典科技股份有限公司 (E'DALE TECHNOLOGY CO., LTD.) 無錫義典科技有限公司 (WUXI-E'DALE TECHNOLOGY CO., LTD.) 臺南市佳里區六安里六安130號 (NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722) 無錫市錫山區東港鎮黃土塘路127號 (NO. 127, HUANGTUTANG ROAD, DONGGANG TOWN, XISHAN DISTRICT, WUXI CITY)

\* 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.)

## EKR24C01549



\*\* 報告結尾 (End of Report) \*\*