

Test Report

號碼(No.): ETR24A04156 日期(Date): 30-Oct-2024 頁數(Page): 1 of 22

國年企業股份有限公司 (BANDL INTERNATIONAL CORPORATION)

国年(昆山)电子有限公司(同隆车间) (BANDL(KUNSHAN) INTERNATIONAL CORPORATION (TONGLONG WORKSHOP)) 国年(深圳)电子有限公司 (BANDL(SHENZHEN)INTERNATIONALCORPORATION)

新北市中和區中正路774號6樓 (6FL., NO. 774, CHUNG CHENG RD., CHUNG HO DIST., NEW TAIPEI CITY, TAIWAN, R. O. C.) 江苏省昆山市紫竹路1698号 (NO.1698 ZIZHU ROAD HIGH TECH INDUSTRY DEVELOPMENT ZONE OF KUNSHAN,JIANGSU PROVINCE)

广东省深圳市宝安区沙井镇同富裕工业区湾厦工业园15栋6楼 (15 THE 6TH FLOOR, TONGFUYU INDUSTRIAL ZONE WANXIA INDUSTRYPARK, SHAJING TOWN, BAOAN DISTRICT, SHENZHEN, CHINA)

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)

國年企業股份有限公司 (BANDL INTERNATIONAL CORPORATION)

樣品名稱(Sample Name)

MATT TIN PLATING SAMPLE (霧錫面鍍品)

收件日(Sample Receiving Date)

: 23-Oct-2024

測試期間(Testing Period)

: 23-Oct-2024 to 30-Oct-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)

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

(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 Makager
Signed for and on behalf of Alwah
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 0A64BA99



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測試部位敘述 (Test Part Description)

No.1 : 銀白色金屬鍍層 (PLATING LAYER OF SILVER-WHITE METAL)

No.2 : 銀白色金屬 (含鍍層) (SILVER-WHITE METAL (INCLUDING THE PLATING LAYER))

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL		果 sult)	限值 (Limit)
				No.1	No.2	
鎘 (Cd) (Cadmium (Cd))	酸洗脫鍍層·參考IEC 62321-5: 2013·以感應耦合電漿發射光譜儀 分析。(IEC 62321-5: 2013	mg/kg	2	n.d.		100
鉛 (Pb) (Lead (Pb))	application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	46.5		1000
汞 (Hg) (Mercury (Hg))	酸洗脫鍍層·參考IEC 62321-4: 2013+ AMD1: 2017·以感應耦合 電漿發射光譜儀分析。(IEC 62321- 4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.		1000
六價鉻 (Hexavalent Chromium) Cr(VI) (#2)	參考IEC 62321-7-1: 2015 · 以紫外 光-可見光分光光度計分析。(With reference to IEC 62321-7-1: 2015, analysis was performed by UV- VIS.)	μg/cm²	0.1	n.d.		-



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測試項目	測試方法	單位	MDL	結	果	限值
(Test Items)	(Method)	(Unit)		(Res	sult)	(Limit)
				No.1	No.2	
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	mg/kg	5		n.d.	-
多溴聯苯總和 (Sum of PBBs)	析儀/質譜儀分析。(With reference	mg/kg	1		n.d.	1000
一溴聯苯醚 (Monobromodiphenyl ether)	to IEC 62321-6: 2015, analysis	mg/kg	5		n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)	was performed by 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	1		n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl	參考IEC 62321-8: 2017,以氣相層	mg/kg	50		n.d.	1000
benzyl phthalate (BBP))	析儀/質譜儀分析。(With reference					
鄰苯二甲酸二丁酯 (DBP) (Dibutyl	to IEC 62321-8: 2017, analysis	mg/kg	50		n.d.	1000
phthalate (DBP))	was performed by GC/MS.)					



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL		果 sult)	限值 (Limit)
				No.1	No.2	
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50		n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50		n.d.	1000
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)	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	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)	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)		mg/kg	50		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: 2008·以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	-	n.d.	-
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016·以離子	mg/kg	50		n.d.	-
氯 (CI) (Chlorine (CI)) (CAS No.: 22537-15-1)	層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50		n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50		n.d.	-



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測試項目	測試方法	單位	MDL		果	限值
(Test Items)	(Method)	(Unit)		•	sult)	(Limit)
TILYO ## T/\ A (TDDD A)	4 */ DOTO 50 5 404 N */ III II		10	No.1	No.2	
四溴雙酚-A (TBBP-A)	參考RSTS-E&E-121,以液相層析	mg/kg	10		n.d.	-
(Tetrabromobisphenol A (TBBP-A))	儀/質譜儀分析。(With reference					
(CAS No.: 79-94-7)	to RSTS-E&E-121, analysis was					
	performed by LC/MS.)					
中鏈氯化石蠟(C14-C17) (MCCP)	參考ISO 18219-2: 2021,以氣相層	mg/kg	50		n.d.	-
(Medium Chain Chlorinated	析儀/質譜儀分析。(With reference					
Paraffins(C14-C17) (MCCP)) (CAS	to ISO 18219-2: 2021, analysis					
No.: 85535-85-9)	was performed by GC/MS.)					
鈹 (Be) (Beryllium (Be)) (CAS No.:	參考US EPA 3050B: 1996,以感應	mg/kg	2		n.d.	-
7440-41-7)	耦合電漿發射光譜儀分析。(With					
	reference to US EPA 3050B: 1996,					
	analysis was performed by ICP-					
	OES.)					
銻 (Sb) (Antimony (Sb)) (CAS No.:	參考US EPA 3050B: 1996,以感應	mg/kg	2		n.d.	-
7440-36-0)	耦合電漿發射光譜儀分析。(With					
	reference to US EPA 3050B: 1996,					
	analysis was performed by ICP-					
	OES.)					
全氟辛烷磺酸及其鹽類 (PFOS and its		μg/m²	1	n.d.		-
salts) (Perfluorooctane sulfonates	修改EN 17681-1: 2022 & EN	1 3				
and its salts (PFOS and its salts)) (CAS	17681-2: 2022,以液相層析串聯質					
No.: 1763-23-1 and its salts)	譜儀分析。(Modified EN 17681-1:					
全氟辛酸及其鹽類 (PFOA and its salts)	`	μg/m²	1	n.d.		-
(Perfluorooctanoic acid and its salts	analysis was performed by	יייעכייז	_			
(PFOA and its salts)) (CAS No.: 335-	LC/MS/MS.)					
67-1 and its salts)	,,					
57 ± 3113 165 54165)						



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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. "---" = Not Conducted (未測試項目)
- 6. (#2) =
 - a. 當六價鉻結果大於0.13 μg/cm²·表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr(VI).) b. 當六價鉻結果為n.d. (濃度小於0.10 μg/cm²)·表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating) c. 當六價鉻結果介於 0.10 及 0.13 μg/cm² 時,無法確定塗層是否含有六價鉻。(The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.)
- 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
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	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_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



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广东省深圳市宝安区沙井镇同富裕工业区湾厦工业园15栋6楼 (15 THE 6TH FLOOR, TONGFUYU INDUSTRIAL ZONE WANXIA INDUSTRYPARK, SHAJING TOWN, BAOAN DISTRICT, SHENZHEN, CHINA)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	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
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛烷磺酸鹽 Perfluorooctanesulfonate (anion)	45298-90-6
(1103, its saits & derivatives)	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-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 ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	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
PFOS, 及其鹽&衍生物	二苯基绪(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
(PFOS, its salts & derivatives)	吡啶鎓 · 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
	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鏻 (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

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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	原基二甲基{2-[(2-甲基丙-2-烯酰基)氧基]乙基}全氟辛烷磺酸氮紮鹽 (PFOS-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
(PFOS, its salts & derivatives)	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
	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	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



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	全氟辛酸-哌嗪(2:1) PFOA-NH($C_4H_{10}N$) Pentadecafluorooctanoic acidpiperazine (2/1)PFOA-NH($C_4H_{10}N$)	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 Tetramethylammoniumperfluoroctanoat	32609-65-7
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	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_2H_7N) 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_2H_7N)	1376936-03-6
	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

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	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
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	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-pentadecafluorooctanoate (1:1) (PFOA- $C_{11}H_{26}N$)	927835-01-6



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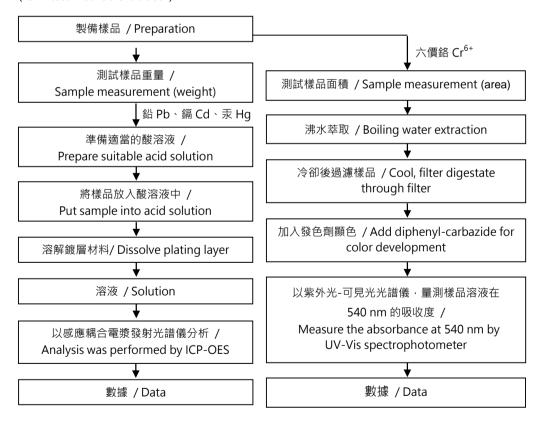
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鍍層重金屬測試流程圖 / Flow chart of stripping method for metal analysis

根據以下的流程圖之條件,樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)





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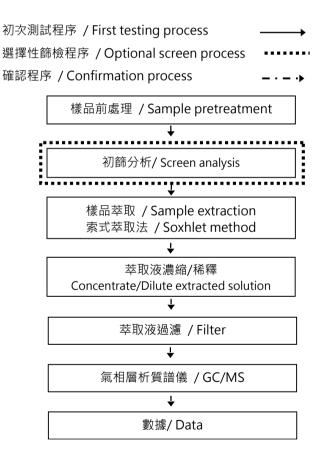
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





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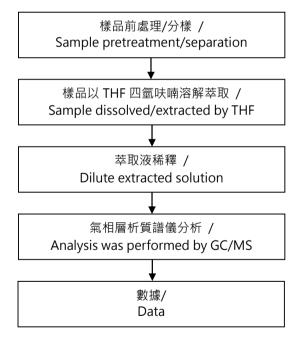
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】





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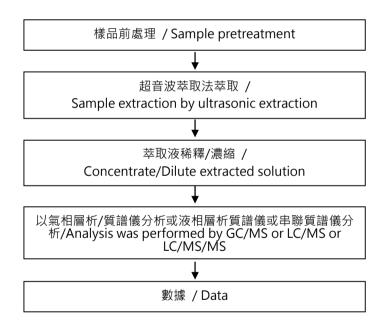
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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)





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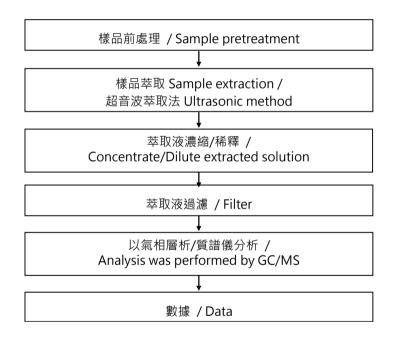
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD





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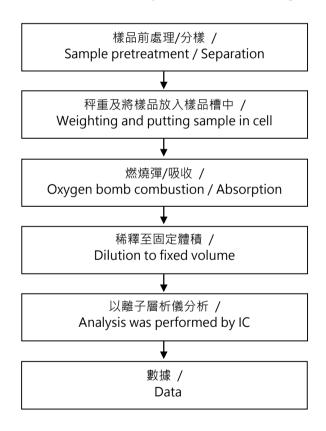
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鹵素分析流程圖 / Analytical flow chart - Halogen





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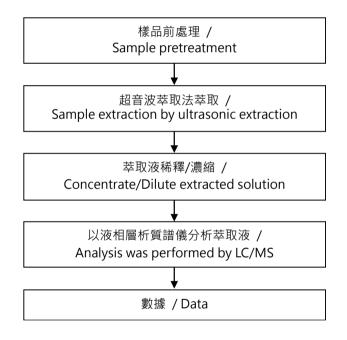
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四溴雙酚-A 分析流程圖 / Analytical flow chart - TBBP-A





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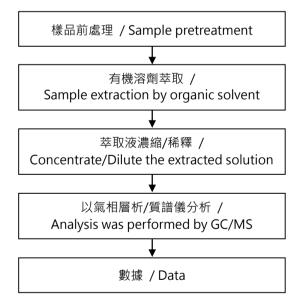
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分析流程圖 / Analytical flow chart

【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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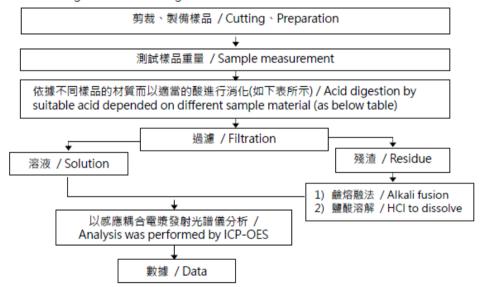
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元素以 ICP-OES 分析的消化流程圖

(Flow chart of digestion for the elements analysis performed by ICP-OES)

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.



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCI, HF, H ₂ O ₂
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ ,HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion



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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.)

ETR24A04156 NO.1



ETR24A04156 NO.2



** 報告結尾 (End of Report) **