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Test Report

億光電子工業股份有限公司 (EVERLIGHT ELECTRONICS CO., LTD.) 新北市樹林區中華路6-8號 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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

DIP ECD
EVERLIGHT
NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN
TEL:886-2685-6688
FAX:886-2685-6699
E-MAIL: lindawang@everlight.com
LI LING WANG
DIP ECD SERIES: ECD04 SERIES
Sampling Product: ECD04T1520F/TB-SGS-11-Jul-2025
Opto–Sensor
0.4916 g
DIP ECD SERIES : ECD04 SERIES
Sampling Product : ECD04T1520F/TB
ZS25050433-001
China
CUTTING
RoHS: IEC 62321, Halogen: BS EN 14582
Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg

送樣廠商(Sample Submitted By) : 億光電子工業股份有限公司 (EVERLIGHT ELECTRONICS CO., LTD.)

收件日(Sample Receiving Date) : 27-Jun-2025

測試期間(Testing Period) : 27-Jun-2025 to 11-Jul-2025

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

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

CHECK DEPORT OF

PIN CODE: 6D4445E



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測試需求(Test Requested)

- (1) 依據客戶指定·參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
- (2) 依據客戶指定,測試 PAHs 及其他測項。 (As specified by client, to test PAHs and other item(s).)

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.)
- (2) 根據客戶所提供的樣品,多環芳香烴測試結果符合德國產品安全委員會(AfPS) GS PAHs第 3 類「其它產品」之限值要求。(Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 3)「Other consumer products」 as set by German Committee on Product Safety (AfPS) GS PAHs.)



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測試部位敘述 (Test Part Description)

No.1 : 黑色塑膠 (BLACK PLASTIC)

No.2 : 本體 (BODY)

No.3 : 銀色金屬接腳鍍層 (PLATING LAYER OF SILVER COLORED METAL PIN) No.4 : 銀色金屬接腳底材 (BASE MATERIAL OF SILVER COLORED METAL PIN)

No.5 : 銀色金屬接腳 (含鍍層) (SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER))

No.6 : 透明塑膠 (TRANSPARENT PLASTIC)

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)
(rest items)	(iviethod)	(OIIIt)		No.1	No.2	No.3	(Lillit)
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013.以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	n.d.		100
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013·以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	n.d.		1000
汞 (Hg) (Mercury (Hg))	参考IEC 62321-4: 2013+ AMD1: 2017 ·以感應耦合電漿發射光譜儀分析。 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	n.d.		1000
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017·以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	n.d.		1000



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL		限值 (Limit)		
				No.1	No.2	No.3	
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 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2			n.d.	100
鉛 (Pb) (Lead (Pb))	酸洗脫鍍層·參考IEC 62321-5: 2013 ·以感應耦合電漿發射光譜儀分析。 (IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2			53.9	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.	-
一溴聯苯 (Monobromobiphenyl)		mg/kg	5	n.d.	n.d.		-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	n.d.		-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	n.d.		-
四溴聯苯 (Tetrabromobiphenyl)	┃ ┃	mg/kg	5	n.d.	n.d.		-
五溴聯苯 (Pentabromobiphenyl)	参与IEC 02321-0. 2013,以無相層初 儀/質譜儀分析。(With reference to	mg/kg	5	n.d.	n.d.		-
六溴聯苯 (Hexabromobiphenyl)	IEC 62321-6: 2015, analysis was	mg/kg	5	n.d.	n.d.		-
七溴聯苯 (Heptabromobiphenyl)	performed by GC/MS.)	mg/kg	5	n.d.	n.d.		-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	n.d.		-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	n.d.		-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	n.d.		-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	n.d.		1000



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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	No.2	No.3	
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.	n.d.		-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	n.d.		-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	n.d.		-
四溴聯苯醚 (Tetrabromodiphenyl ether)	# */JEC 60004 6 0045 N/E/JEE/6	mg/kg	5	n.d.	n.d.		-
五溴聯苯醚 (Pentabromodiphenyl ether)	參考IEC 62321-6: 2015・以氣相層析	mg/kg	5	n.d.	n.d.		-
六溴聯苯醚 (Hexabromodiphenyl ether)	儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was	mg/kg	5	n.d.	n.d.		-
七溴聯苯醚 (Heptabromodiphenyl ether)	performed by GC/MS.)	mg/kg	5	n.d.	n.d.		-
八溴聯苯醚 (Octabromodiphenyl ether)	performed by Ge/Wis.)	mg/kg	5	n.d.	n.d.		-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	n.d.		-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	n.d.		-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	n.d.		1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl	參考IEC 62321-8: 2017·以氣相層析	mg/kg	50	n.d.	n.d.		1000
benzyl phthalate (BBP))	儀/質譜儀分析。(With reference to						
	IEC 62321-8: 2017, analysis was						
	performed by GC/MS.)						
鄰苯二甲酸二丁酯 (DBP) (Dibutyl	參考IEC 62321-8: 2017 · 以氣相層析	mg/kg	50	n.d.	n.d.		1000
phthalate (DBP))	儀/質譜儀分析。(With reference to						
	IEC 62321-8: 2017, analysis was						
	performed by GC/MS.)						
鄰苯二甲酸二(2-乙基己基)酯	參考IEC 62321-8: 2017 · 以氣相層析	mg/kg	50	n.d.	n.d.		1000
(DEHP) (Di-(2-ethylhexyl)	儀/質譜儀分析。(With reference to						
phthalate (DEHP))	IEC 62321-8: 2017, analysis was						
No. 11 - CO. T. C.	performed by GC/MS.)						
鄰苯二甲酸二異丁酯 (DIBP)	參考IEC 62321-8: 2017 · 以氣相層析	mg/kg	50	n.d.	n.d.		1000
(Diisobutyl phthalate (DIBP))	儀/質譜儀分析。(With reference to						
	IEC 62321-8: 2017, analysis was performed by GC/MS.)						
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP))	參考IEC 62321-8: 2017 · 以氣相層析	mg/kg	50	n.d.	n.d.		-
(CAS No.: 26761-40-0, 68515-49-	儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was						
(CAS No.: 26761-40-0, 66515-49-	performed by GC/MS.)						
^{± /} 鄰苯二甲酸二異壬酯 (DINP)	参考IEC 62321-8: 2017 · 以氣相層析	ma/ka	50	n 4	n.d.		
一种	多名IEC 02321-8. 2017 · 以黑伯層初 儀/質譜儀分析。(With reference to	mg/kg	50	n.d.	11.0.		-
	IEC 62321-8: 2017, analysis was						
0)	performed by GC/MS.)						
/	<u> </u>						



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測試項目	測試方法	單位	MDL		限值		
(Test Items)	(Method)	(Unit)			(Result)		(Limit)
				No.1	No.2	No.3	
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.	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.	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.	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.	n.d.		-
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.	n.d.		-
鄰苯二甲酸二異辛酯 (DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)	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.	n.d.		-
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.	n.d.		-



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL		限值 (Limit)		
				No.1	No.2	No.3	
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α- HBCDD, β-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))		mg/kg	5	n.d.	n.d.		-
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	159	n.d.		-
氯 (CI) (Chlorine (CI)) (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	77.5	63.3		-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)	參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	n.d.		-
44-8)	參考BS EN 14582: 2016·以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	n.d.		-
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)	参考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	n.d.		-



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)			限值 (Limit)
				No.1	No.2	No.3	
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.	n.d.		-
多環芳香烴 (Polycyclic Aromatic Hydrocarbons) (PAHs)							
苯騈(a)芘 (Benzo[a]pyrene) (CAS No.: 50-32-8)		mg/kg	0.2	n.d.	n.d.		Δ
苯駢(e)芘 (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	n.d.		Δ
苯駢蒽 (Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	n.d.		Δ
苯(b)苯駢芴 (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	n.d.		Δ
苯(j)苯駢芴 (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2	n.d.	n.d.		Δ
苯(k)苯駢芴 (Benzo[k]fluoranthene) (CAS No.: 207-08-9)		mg/kg	0.2	n.d.	n.d.		Δ
菌 (Chrysene) (CAS No.: 218-01-9)	参考AfPS GS 2019:01 PAK・以氣相層	mg/kg	0.2	n.d.	n.d.		Δ
二苯駢蒽 (Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)	析儀/質譜儀分析。(With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	n.d.		Δ
苯駢菲 (Benzo[g,h,i]perylene) (CAS No.: 191-24-2)	perioritied by GC/Wis.)	mg/kg	0.2	n.d.	n.d.		Δ
茚酮芘 (Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	n.d.		Δ
蒽 (Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	n.d.		Δ
苯駢芴 (Fluoranthene) (CAS No.: 206-44-0)		mg/kg	0.2	n.d.	n.d.		Δ
菲 (Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	n.d.		Δ
芘 (Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	n.d.		Δ
萘 (Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	n.d.		Δ
多環芳香烴15項總和 (Sum of 15 PAHs)		mg/kg	-	n.d.	n.d.		Δ



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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)			限值 (Limit)
				No.1	No.2	No.3	
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	參考US EPA 3052: 1996·以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	n.d.		-

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL			限值 (Limit)	
				No.4	No.5	No.6	
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
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 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL		結果 (Result)		限值 (Limit)
				No.4	No.5	No.6	
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.	1	-	1000
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)] 参考IEC 62321-6: 2015·以氣相層析	mg/kg	5			n.d.	-
五溴聯苯 (Pentabromobiphenyl)	後/質譜儀分析。(With reference to	mg/kg	5			n.d.	-
六溴聯苯 (Hexabromobiphenyl)	IEC 62321-6: 2015, analysis was	mg/kg	5			n.d.	-
七溴聯苯 (Heptabromobiphenyl)	performed by GC/MS.)	mg/kg	5			n.d.	-
八溴聯苯 (Octabromobiphenyl)	performed by GC/Wis.)	mg/kg	5			n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5			n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5			n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-			n.d.	1000
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5			n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5			n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5			n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)	】 ★参考IEC 62321-6: 2015·以氣相層析	mg/kg	5			n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5			n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)	儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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)
(10301001113)	(Method)			No.4	No.5	No.6	(2)
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.	-
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.	-



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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.4	No.5	No.6	
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.	-
鄰苯二甲酸二異辛酯 (DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)	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.	-
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	1	1	n.d.	1
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α - HBCDD, β - HBCDD, γ - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))		mg/kg	5			n.d.	-
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016·以離子層析 儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50			n.d.	-
氯 (CI) (Chlorine (CI)) (CAS No.: 22537-15-1)	參考BS EN 14582: 2016·以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50			n.d.	-



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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)	
(Test items)	(ivietilou)	(OIIII)		No.4	No.5	No.6	(LIIIIII)
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)	參考BS EN 14582: 2016·以離子層析 儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50			n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362- 44-8)	參考BS EN 14582: 2016·以離子層析 儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50			n.d.	-
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)	参考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.	-
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	参考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.	-
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	參考US EPA 3050B: 1996·以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2		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.4	No.5	No.6	
多環芳香烴 (Polycyclic Aromatic Hydrocarbons) (PAHs)							
苯駢(a)芘 (Benzo[a]pyrene) (CAS No.: 50-32-8)		mg/kg	0.2			n.d.	Δ
苯駢(e)芘 (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2			n.d.	Δ
苯駢蒽 (Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2			n.d.	Δ
苯(b)苯駢芴 (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2			n.d.	Δ
苯(j)苯駢芴 (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2			n.d.	Δ
苯(k)苯駢芴 (Benzo[k]fluoranthene) (CAS No.: 207-08-9)		mg/kg	0.2			n.d.	Δ
蒀 (Chrysene) (CAS No.: 218-01-9)	参考AfPS GS 2019:01 PAK・以氣相層	mg/kg	0.2			n.d.	Δ
二苯駢蒽 (Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)	析儀/質譜儀分析。(With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2			n.d.	Δ
苯駢苝 (Benzo[g,h,i]perylene) (CAS No.: 191-24-2)	реполнеа ву вс/міз.)	mg/kg	0.2			n.d.	Δ
茚酮芘 (Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2			n.d.	Δ
蒽 (Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2			n.d.	Δ
苯駢芴 (Fluoranthene) (CAS No.: 206- 44-0)		mg/kg	0.2			n.d.	Δ
菲 (Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2			n.d.	Δ
芘 (Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2			n.d.	Δ
萘 (Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2			n.d.	Δ
多環芳香烴15項總和 (Sum of 15 PAHs)		mg/kg	-			n.d.	Δ



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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 $0.13~\mu g/cm^2$ ·表示樣品表層含有六價鉻. / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13~\mu g/cm^2$. The sample coating is considered to contain Cr(VI).
 - b. 當六價鉻結果為n.d. (濃度小於 $0.10~\mu g/cm^2$)·表示表層不含六價鉻. / The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating
 - c. 當六價鉻結果介於 0.10 及 0.13 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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PAHs Remark:

△ 德國產品安全委員會(AfPS): GS PAHs 要求

AfPS (German commission for Product Safety): GS PAHs requirements

	第1類(Category 1)	第 2 類(Cate	egory 2)	第 3 類(Cat	egory 3)	
	意圖放入口中的材料或者長時間接觸皮膚(超過 30 秒)的	見與皮膚接觸逾 30 秒	秒(長期皮膚接觸)	不屬於第1類或第2 圖或可預見與皮膚接	觸不超過 30 秒	
	2009/48/EC 定義的玩具材料和 3	或重複的短時間接觸		(短期皮膚接觸)(Mat		
項目	歲以下兒童使用的產品(Materials intended to be placed in the	are not in Category		covered by Catego intended or foresea		
	mouth, or materials in toys	skin contact (> 30 s		term skin contact (≤ 30 seconds))		
(i didiffecei)	(Directive 2009/48/EC) or	short-term repetitiv				
		the skin)	Τ			
	years of age with intended	a. # 14 指以下母亲体	b. 甘中家里(OH)		b. 甘中多只(Odlasia	
	long-term skin contact (> 30 seconds))	用的產品(Use by	共它産品(Other consumer	供 14 歲以下兒童使 用的產品(Use by	共它産品(Other consumer	
	Seconds))	children under 14)		children under 14)		
Naphthalene	< 1	< 2		< 10		
Phenanthrene						
Anthracene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
Fluoranthene	\ 1 3uiii	< 3 3uiii	< 10 3uiii	< 20 Julii	< 50 Sulli	
Pyrene						
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
15 項 PAH 總濃度 (Sum of 15 PAH)	< 1	< 5	< 10	< 20	< 50	

單位(Unit):mg/kg



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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 ₄) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
	全氟辛基磺酸二乙醇銨 (PFOS-NH(C2H4OH)2) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C2H4OH)2)	70225-14-8
PFOS, 及其鹽&衍生物 (PFOS, its salts &	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
derivatives)	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_4H_9) $_4$) TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C_4H_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



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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- 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) 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_2H_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-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
PFOS, 及其鹽&衍生物	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
(PFOS, its salts & derivatives)	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
	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
	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



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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鏻 (PFOS-P(C ₄ H ₉) ₄)) Tetrabutylphosphonium perfluorooctane 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- $C_4H_{11}N$) Perfluorooctanesulfonic acid diethylamine salt (PFOS- $C_4H_{11}N$)	2205029-08-7
derivatives)	庚基二甲基 $\{2-[(2-甲基丙-2-烯酰基)氧基]乙基}全氟辛烷磺酸氮素 鹽 (PFOS-C15H30NO2) Heptyldimethyl\{2-[(2-methylprop-2-enoyl)oxy]ethyl\}azanium perfluorooctanesulfonate (PFOS-C15H30NO2)$	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
PFOA, 及其鹽&衍生物	全氟辛酸 (Perfluorooctanoic acid) (PFOA)	335-67-1
(PFOA, its salts & derivatives)	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5



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物質名稱	CAS No.
全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
全氟辛酸鋰 (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
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
全氟辛酸-哌嗪(2:1) PFOA-NH(C $_4$ H $_{10}$ N) Pentadecafluorooctanoic acidpiperazine (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 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
	(Substance Name) 全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K) 全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag) 全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F) 全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO) 全氟辛酸鋰 (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li) 全氟辛酸銨 (PFOA-Co) Cobalt perfluorooctanoate (PFOA-Co) 全氟辛酸銫 (PFOA-Cs) Cesium perfluorooctanoate (PFOA-Cs) 全氟辛酸銫 (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*)) 全氟辛酸៌ 「PFOA-NH(C₄H1₀N) Pentadecafluorooctanoic acidpiperazine (2/1)PFOA-NH(C₄H1₀N) 全氟辛酸៌ Perfluorooctanoic Anhydride 乙銨・N,N,N-三乙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-+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) 全氟辛酸四甲銨醷 Tetramethylammoniumperfluoroctanoat 1-丙銨・N,N,N-三丙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-+五氟辛酸 (1:1) 1-Propanaminium, N,N,N-tripropyl-,



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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	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
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	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- $C_{10}H_{14}N_2$) 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) 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



Test Report

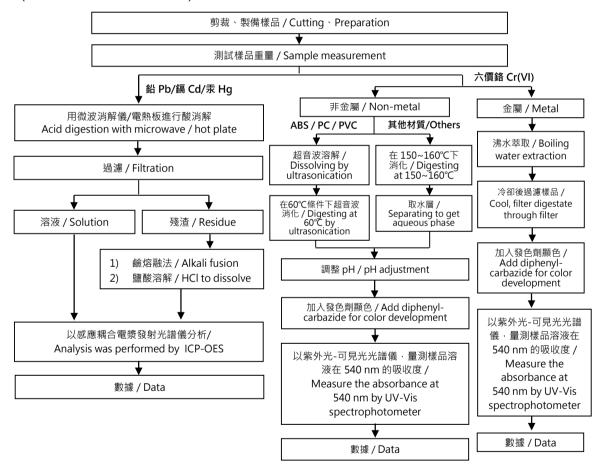
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重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

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





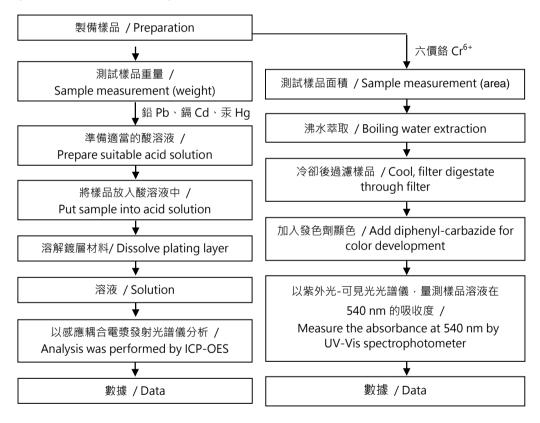
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鍍層重金屬測試流程圖 / Flow chart of stripping method for metal analysis

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)



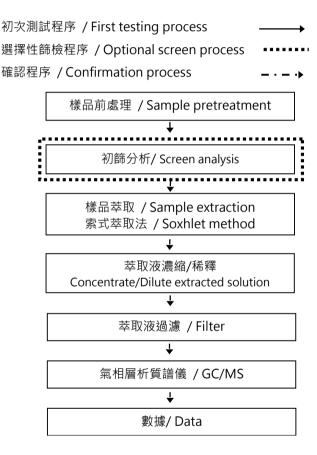


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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





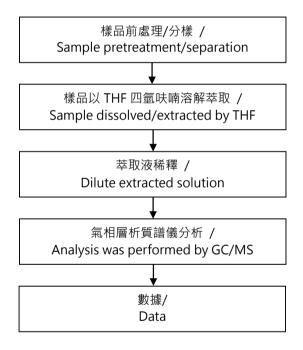
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



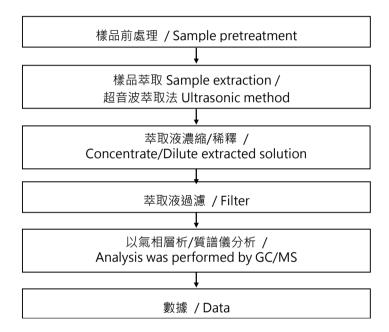


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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



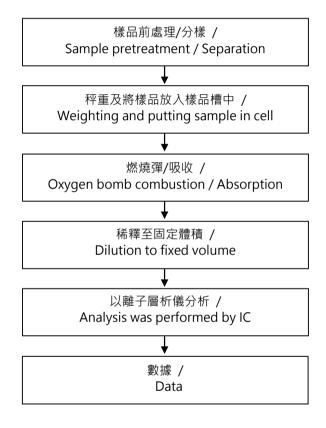


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鹵素分析流程圖 / Analytical flow chart - Halogen



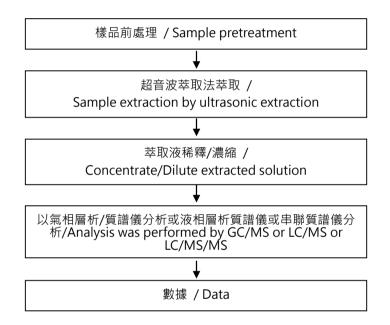


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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



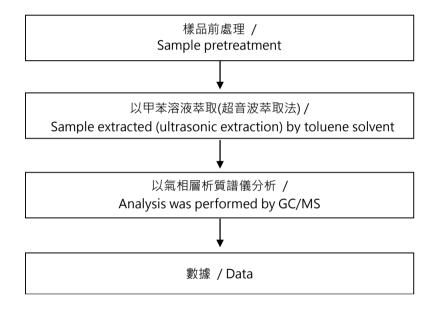


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多環芳香烴分析流程圖 / Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)





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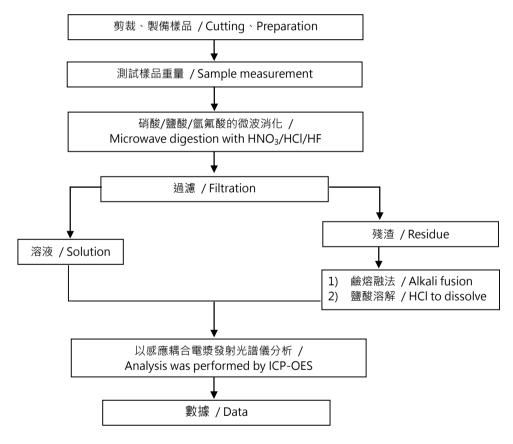
億光電子工業股份有限公司 (EVERLIGHT ELECTRONICS CO., LTD.) 新北市樹林區中華路6-8號 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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.



Test Report

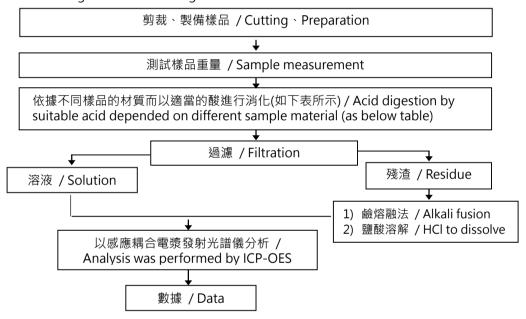
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元素以 ICP-OES 分析的消化流程圖

(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 , HCl, 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 / HNO ₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
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.)

ETR25605639 NO.1



ETR25605639 NO.2



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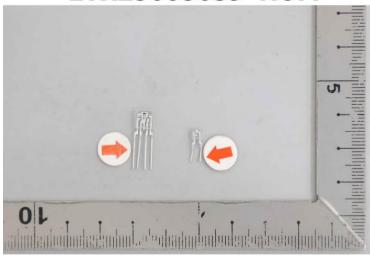
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ETR25605639 NO.3



ETR25605639 NO.4



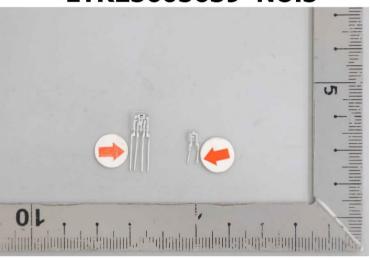


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ETR25605639 NO.5



ETR25605639 NO.6



** 報告結尾 (End of Report) **