

Test Report

號碼(No.): EKR22801843 日期(Date): 06-Sep-2022 頁數(Page): 1 of 19

ADVANCED ASSEMBLY MATERIALS CHINA LIMITED

BLOCK 6101-6301,10/1F, 12-14, 15/2-3, FUQIAO 2ND INDUSTRIAL ESTATE, QIAOTOU COMMUNITY, FUHAI, BAO'AN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R. 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)

ADVANCED ASSEMBLY MATERIALS CHINA LIMITED

樣品名稱(Sample Name)

: Ag PLATING LAYER

收件日(Sample Receiving Date)

: 29-Aug-2022

測試期間(Testing Period)

: 29-Aug-2022 to 05-Sep-2022

測試需求(Test Requested) :

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) 根據客戶所選擇的部位測試·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 selected part of 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 behali
SGS TAIWAN LTD.

化學實驗室-高雄/Chemical Laboratory-Kaohsiung



PIN CODE: 16CC643



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測試部位敘述 (Test Part Description)

No.1 : 銀色鍍層 (SILVER COLORED METAL PLATING LAYER)

No.2 : 銀色金屬片(含鍍層) (SILVER COLORED METAL SHEET(INCLUDING THE PLATING LAYER))

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結		限值
(Test Items)	(Method)	(Unit)		(Res	sult)	(Limit)
				No.1	No.2	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	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	mg/kg	2	n.d.		100
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439- 92-1)	digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.		1000
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	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) (CAS No.: 18540-29-9) (#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	-		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	測試方法	單位	MDL	結	果	限值
(Test Items)	(Method)	(Unit)		(Res	sult)	(Limit)
				No.1	No.2	
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-	參考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					
Att (D.) (D. 11: (D.)) (CACAL 7440	by ICP-OES.)					
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.)					
多氯聯苯 (PCBs) (Polychlorinated	- ***	mg/kg	0.5		n.d.	-
biphenyls (PCBs))	質譜儀分析。(With reference to US EPA	J. J				
	3550C: 2007, analysis was performed by					
	GC/MS.)					
多氯奈 (PCNs) (Polychlorinated	參考US EPA 3550C: 2007,以氣相層析儀/	mg/kg	5		n.d.	
naphthalene (PCNs))	質譜儀分析。(With reference to US EPA					
	3550C: 2007, analysis was performed by GC/MS.)					
多氯三聯苯 (PCTs) (Polychlorinated	GC/MS.) 參考US EPA 3550C: 2007 · 以氣相層析儀/	ma/ka	0.5		n.d.	
する	質譜儀分析。(With reference to US EPA	mg/kg	0.5		n.a.	-
terprierryis (i C13))	3550C: 2007, analysis was performed by					
	GC/MS.)					
短鏈氯化石蠟(C10-C13) (SCCP) (Short	參考ISO 18219: 2015 · 以氣相層析儀/質	mg/kg	50		n.d.	-
Chain Chlorinated Paraffins(C10-C13)	譜儀分析。(With reference to ISO 18219:					
(SCCP)) (CAS No.: 85535-84-8)	2015, analysis was performed by					
	GC/MS.)					
氟 (F) (Fluorine (F)) (CAS No.: 14762-		mg/kg	50		n.d.	-
94-8)						
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537- 15-1)	参考BS EN 14582: 2016 · 以離子層析儀分	mg/kg	50		n.d.	-
,	析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)		F0		l	
溴 (Br) (Bromine (Br)) (CAS No.: 10097- 32-2)	2010, analysis was performed by IC.)	mg/kg	50		n.d.	-
,		ma/ka	ΕΛ		n d	
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		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)		(Res	sult)	(Limit)
				No.1	No.2	
三丁基錫 (TBT) (Tributyl tin (TBT))	參考ISO 17353: 2004 · 以氣相層析儀/火	mg/kg	0.03		n.d.	-
三苯基錫 (TPT) (Triphenyl tin (TPT))	焰光度偵測器分析。(With reference to	mg/kg	0.03	-	n.d.	-
二丁基錫 (DBT) (Dibutyl tin (DBT))	ISO 17353: 2004, analysis was	mg/kg	0.03		n.d.	-
二辛基錫 (DOT) (Dioctyl tin (DOT))	performed by GC/FPD.)	mg/kg	0.03		n.d.	-
氧化雙三丁基錫 (TBTO)	由三丁基錫測試結果計算得之。	mg/kg	0.03▲		n.d.	-
(Bis(tributyltin) oxide (TBTO)) (CAS	(Calculated from the result of Tributyl					
No.: 56-35-9)	Tin (TBT).)					
全氟辛烷磺酸及其鹽類 (PFOS and its	参考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01		n.d.	-
salts) (CAS No.: 1763-23-1 and its	聯質譜儀分析。(With reference to					
salts)	CEN/TS 15968: 2010, analysis was					
	performed by LC/MS/MS.)					
全氟辛酸 (PFOA)及其鹽類	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01		n.d.	-
(Perfluorooctanoic acid (PFOA) and	聯質譜儀分析。(With reference to					
it's salt) (CAS No.: 335-67-1 and its	CEN/TS 15968: 2010, analysis was					
salts)	performed by LC/MS/MS.)					1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl	参考IEC 62321-8: 2017・以氣相層析儀/質	mg/kg	50		n.d.	1000
benzyl phthalate (BBP)) (CAS No.: 85-	譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by					
68-7)	GC/MS.)					
 	参考 EC 62321-8: 2017 · 以氣相層析儀/質	mg/kg	50		n.d.	1000
phthalate (DBP)) (CAS No.: 84-74-2)	iii 儀分析。(With reference to IEC 62321-	mg/kg	30		n.u.	1000
	8: 2017, analysis was performed by					
	GC/MS.)					
鄰苯二甲酸二異癸酯 (DIDP)	參考IEC 62321-8: 2017 · 以氣相層析儀/質	mg/kg	50		n.d.	-
(Diisodecyl phthalate (DIDP)) (CAS	譜儀分析。(With reference to IEC 62321-	3. 3				
No.: 26761-40-0, 68515-49-1)	8: 2017, analysis was performed by					
	GC/MS.)					
鄰苯二甲酸二異壬酯 (DINP)	參考IEC 62321-8: 2017 · 以氣相層析儀/質	mg/kg	50		n.d.	-
(Diisononyl phthalate (DINP)) (CAS	譜儀分析。(With reference to IEC 62321-					
No.: 28553-12-0, 68515-48-0)	8: 2017, analysis was performed by					
	GC/MS.)					



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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	
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)	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.)	3	50	1	n.d.	-
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)	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.	1000
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.	-
鄰苯二甲酸二(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.	-
	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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(Test Items)	(Method)	(Unit)		(Res	sult)	(Limit)
				No.1	No.2	
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)	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.	-
1,2-苯二酸-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)	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.)	3	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.	-
聚氯乙烯 (Polyvinyl chloride) (PVC)	參考ASTM E1252: 2013 · 以傅立葉轉換紅外線光譜儀及焰色法分析。(With reference to ASTM E1252: 2013, analysis was performed by FT-IR and Flame Test.)	**	-		Negative	-
三氧化二銻(Sb ₂ O ₃) (Antimony trioxide (Sb ₂ O ₃)) (CAS No.: 1309-64-4)	由銻結果計算得之。(Calculated from the result of Antimony.)	mg/kg	2▲		n.d.	-
砷 (As) (Arsenic (As)) (CAS No.: 7440-38-2)	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.	-
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: 2015 · 以氣相層析儀/質 譜儀分析。(With reference to ISO 18219: 2015, analysis was performed by GC/MS.)	mg/kg	50		n.d.	-



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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. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 7. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 8. 全氟辛烷磺酸及其鹽類包含 (PFOS and its salts including):
 - CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
- 9. 全氟辛酸及其鹽類包含 (PFOA and its salts including):
 - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 10. (#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.)
- 11. ▲: 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 × F

AX	А	F
氧化雙三丁基錫 (Bis(tributyltin)oxide) (TBTO)	三丁基錫 (Tributyl Tin) (TBT)	1.0276
三氧化二銻 (Antimony trioxide) (Sb ₂ O ₃)	銻 (Antimony)	1.1971

參數換算表 (Parameter Conversion Table):

https://eecloud.sgs.com/Region_TW/DocDownload.aspx#otherDoc

12. 除非另有說明,參照ILAC-G8:09/2019,採用簡單二元(w=0)允收規則進行符合性判定;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.)



Test Report

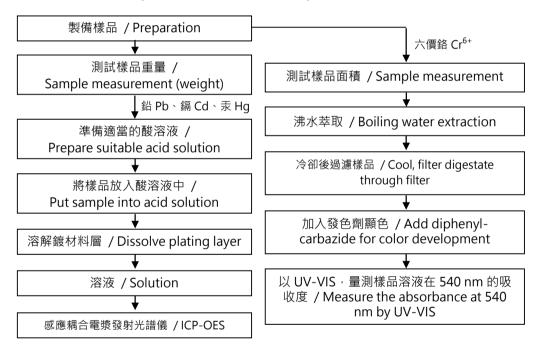
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ADVANCED ASSEMBLY MATERIALS CHINA LIMITED

BLOCK 6101-6301,10/1F, 12-14, 15/2-3, FUQIAO 2ND INDUSTRIAL ESTATE, QIAOTOU COMMUNITY, FUHAI, BAO'AN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R. CHINA

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)



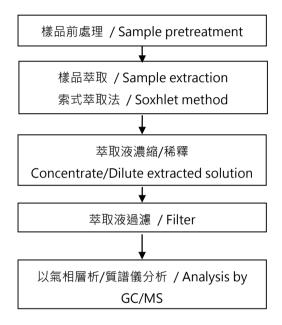


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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART





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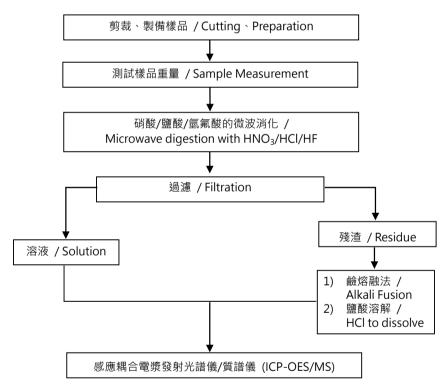
BLOCK 6101-6301,10/1F, 12-14, 15/2-3, FUQIAO 2ND INDUSTRIAL ESTATE, QIAOTOU COMMUNITY, FUHAI, BAO'AN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R. CHINA

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 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

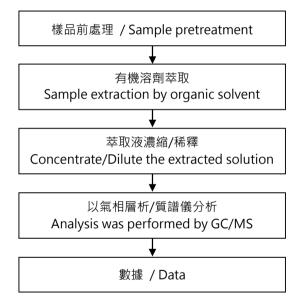
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分析流程圖 / Analytical flow chart

【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



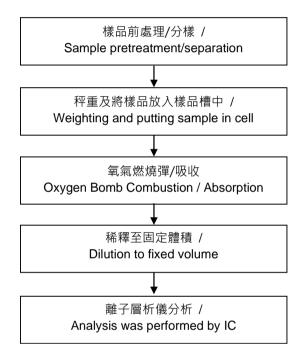


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鹵素分析流程圖 / Analytical flow chart of Halogen



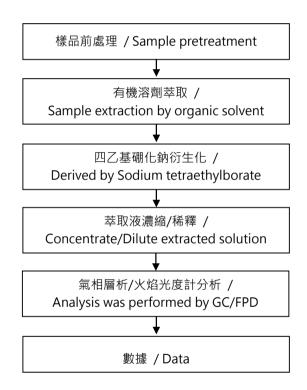


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有機錫分析流程圖 / Analytical flow chart - Organic-Tin



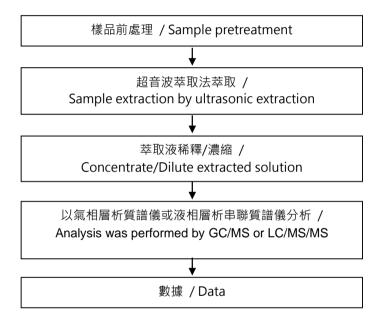


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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)





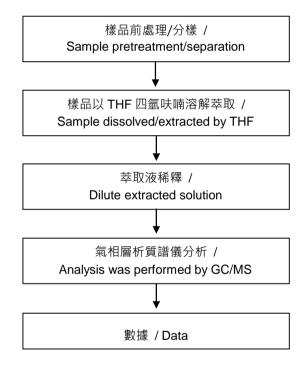
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

【測試方法/Test method: IEC 62321-8】



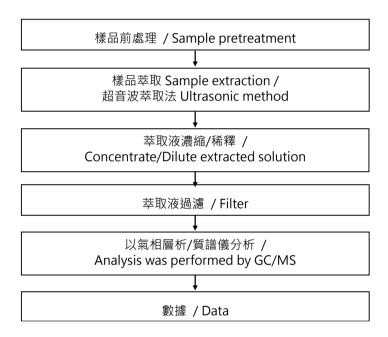


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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



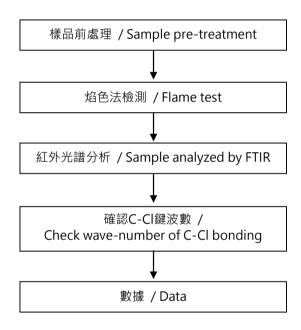


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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC





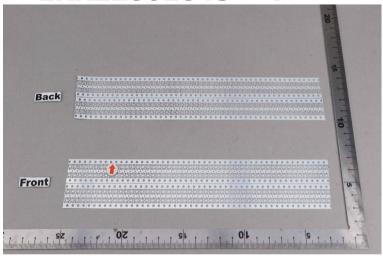
Test Report

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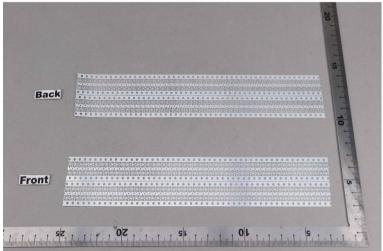
ADVANCED ASSEMBLY MATERIALS CHINA LIMITED BLOCK 6101-6301,10/1F, 12-14, 15/2-3, FUQIAO 2ND INDUSTRIAL ESTATE, QIAOTOU COMMUNITY, FUHAI, BAO'AN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R. CHINA

* 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.)

EKR22801843 NO.1



EKR22801843 NO.2



** 報告結尾 (End of Report) **

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