

Test Report

號碼(No.): EKR22801838 日期(Date): 06-Sep-2022 頁數(Page): 1 of 18

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)

: A194/C194 Cu ALLOY

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)

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

測試結果(Test Results)

結 論(Conclusion) :

(1) 根據客戶所提供的樣品·其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU)

2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863

amending Annex II to Directive 2011/65/EU.)

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

化學實驗室-高雄/Chemical Laboratory-Kaohsiung



PIN CODE: 77AA146C



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測試部位敘述 (Test Part Description)

No.1 : 紅銅色金屬片 (RED COPPER COLORED METAL SHEET)

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)) (CAS No.: 7440-43-9)	参考IEC 62321-5: 2013·以感應耦合電漿發射 光譜儀分析。(With reference to IEC 62321-5:	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	2013, analysis was performed by ICP-OES.)	mg/kg	2	18.8	1000
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	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 (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.	-
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)	參考IEC 62321-6: 2015·以氣相層析儀/質譜儀	mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)	分析。(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)	analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000



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(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
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)		mg/kg	5	n.d.	1
五溴聯苯醚 (Pentabromodiphenyl ether)	参考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀	mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)	分析。(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)	analysis was performed by GC/MS.)	mg/kg	5	n.d.	1
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	ı	n.d.	1000
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-	參考US EPA 3052: 1996,以感應耦合電漿發射	mg/kg	2	n.d.	-
36-0)	光譜儀分析。(With reference to US EPA 3052:				
	1996, analysis was performed by ICP-OES.)				
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-	參考US EPA 3052: 1996,以感應耦合電漿發射	mg/kg	2	n.d.	-
41-7)	光譜儀分析。(With reference to US EPA 3052:				
	1996, analysis was performed by ICP-OES.)				
多氯聯苯 (PCBs) (Polychlorinated	參考US EPA 3550C: 2007,以氣相層析儀/質譜	mg/kg	0.5	n.d.	-
biphenyls (PCBs))	儀分析。(With reference to US EPA 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/質譜	mg/kg	5	n.d.	-
naphthalene (PCNs))	儀分析。(With reference to US EPA 3550C:				
	2007, analysis was performed by GC/MS.)				
多氯三聯苯 (PCTs) (Polychlorinated	參考US EPA 3550C: 2007,以氣相層析儀/質譜	mg/kg	0.5	n.d.	-
terphenyls (PCTs))	儀分析。(With reference to US EPA 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/質譜儀分	mg/kg	50	n.d.	-
Chain Chlorinated Paraffins(C10-C13)	析。(With reference to ISO 18219: 2015,				
(SCCP)) (CAS No.: 85535-84-8)	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)		(Result)	(Limit)
				No.1	
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 · 以離子層析儀分析。	mg/kg	50	n.d.	-
15-1)	(With reference to BS EN 14582: 2016,				
溴 (Br) (Bromine (Br)) (CAS No.: 10097- 32-2)	analysis was performed by IC.)	mg/kg	50	n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	
(i) (louine (i)) (CAS No.: 14302-44-6)		mg/kg	30	n.u.	-
三丁基錫 (TBT) (Tributyl tin (TBT))	# */100 170F0 0001 N/F IDE IC/# (1.16)V/F	mg/kg	0.03	n.d.	-
三苯基錫 (TPT) (Triphenyl tin (TPT))	參考ISO 17353: 2004 · 以氣相層析儀/火焰光度 偵測器分析。(With reference to ISO 17353:	mg/kg	0.03	n.d.	-
二丁基錫 (DBT) (Dibutyl tin (DBT))	2004, analysis was performed by GC/FPD.)	mg/kg	0.03	n.d.	-
二辛基錫 (DOT) (Dioctyl tin (DOT))	2004, analysis was performed by Ge/11 D.)	mg/kg	0.03	n.d.	-
氧化雙三丁基錫 (TBTO) (Bis(tributyltin)	由三丁基錫測試結果計算得之。(Calculated	mg/kg	0.03 🛦	n.d.	-
oxide (TBTO)) (CAS No.: 56-35-9)	from the result of Tributyl Tin (TBT).)				
全氟辛烷磺酸及其鹽類 (PFOS and its	參考CEN/TS 15968: 2010 · 以液相層析串聯質	mg/kg	0.01	n.d.	-
salts) (CAS No.: 1763-23-1 and its salts)	譜儀分析。(With reference to 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 · 以液相層析串聯質	mg/kg	0.01	n.d.	-
(Perfluorooctanoic acid (PFOA) and it's	譜儀分析。(With reference to CEN/TS 15968:				
salt) (CAS No.: 335-67-1 and its salts)	2010, analysis was performed by LC/MS/MS.)				
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl	参考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀	mg/kg	50	n.d.	1000
phthalate (BBP)) (CAS No.: 85-68-7)	分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)				
With TITA THE CORD (C.)					1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
phthalate (DBP)) (CAS No.: 84-74-2)	analysis was performed by GC/MS.)				
和 + - 口 = 0 = B 公 = (DID D) (D:	3		F.0		
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
0, 68515-49-1)	analysis was performed by GC/MS.)				
0, 00013 43-1)	[aa., a.a. periorined by Ge,a.,				



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(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀	mg/kg	50	n.d.	-
phthalate (DINP)) (CAS No.: 28553-12-	分析。(With reference to IEC 62321-8: 2017,				
0, 68515-48-0)	analysis was performed by GC/MS.)				
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀	mg/kg	50	n.d.	1000
(2-ethylhexyl) phthalate (DEHP)) (CAS	分析。(With reference to IEC 62321-8: 2017,				
No.: 117-81-7)	analysis was performed by GC/MS.)				
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀	mg/kg	50	n.d.	-
phthalate (DNOP)) (CAS No.: 117-84-0)	分析。(With reference to IEC 62321-8: 2017,				
	analysis was performed by GC/MS.)				
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀	mg/kg	50	n.d.	1000
phthalate (DIBP)) (CAS No.: 84-69-5)	分析。(With reference to IEC 62321-8: 2017,				
	analysis was performed by GC/MS.)				
鄰苯二甲酸二正戊酯 (DNPP) (Di-n-	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀	mg/kg	50	n.d.	-
pentyl phthalate (DNPP)) (CAS No.:	分析。(With reference to IEC 62321-8: 2017,				
131-18-0)	analysis was performed by GC/MS.)				
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl	參考IEC 62321-8: 2017·以氣相層析儀/質譜儀	mg/kg	50	n.d.	-
phthalate (DNHP)) (CAS No.: 84-75-3)	分析。(With reference to IEC 62321-8: 2017,				
	analysis was performed by GC/MS.)				
鄰苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	參考IEC 62321-8: 2017·以氣相層析儀/質譜儀	mg/kg	50	n.d.	-
(Bis-(2-methoxyethyl) phthalate	分析。(With reference to IEC 62321-8: 2017,				
(DMEP)) (CAS No.: 117-82-8)	analysis was performed by GC/MS.)				
鄰苯二甲酸正戊異戊酯 (NPIPP) (N-pentyl	參考IEC 62321-8: 2017·以氣相層析儀/質譜儀	mg/kg	50	n.d.	-
7, (分析。(With reference to IEC 62321-8: 2017,				
776297-69-9)	analysis was performed by GC/MS.)				
鄰苯二甲酸二異戊酯 (DIPP) (Diisopentyl	參考IEC 62321-8: 2017·以氣相層析儀/質譜儀	mg/kg	50	n.d.	-
phthalate (DIPP)) (CAS No.: 605-50-5)	分析。(With reference to IEC 62321-8: 2017,				
	analysis was performed by GC/MS.)				



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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)
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	No.1 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.)	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.	-
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. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 7. 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.

8. 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.

- 9. (#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.)
- 10. ▲: 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	Α	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

参數換算表 (Parameter Conversion Table):

https://eecloud.sqs.com/Region TW/DocDownload.aspx#otherDoc

11. 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.)



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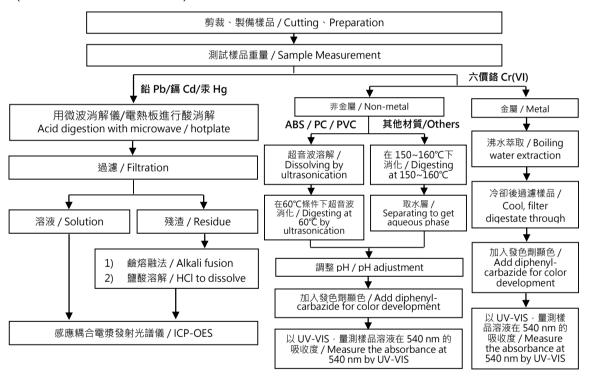
ADVANCED ASSEMBLY MATERIALS CHINA LIMITED

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

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)





Test Report

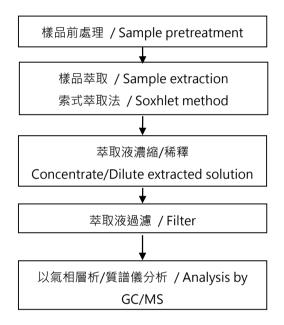
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART





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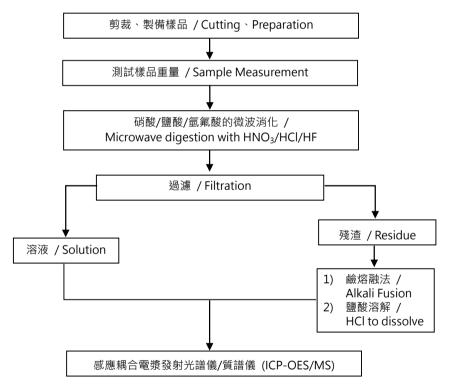
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元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

根據以下的流程圖之條件,樣品已完全溶解。

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

【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.



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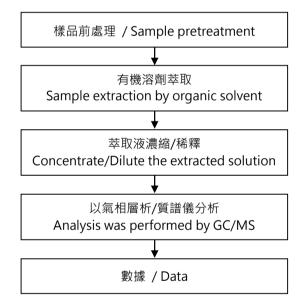
ADVANCED ASSEMBLY MATERIALS CHINA LIMITED

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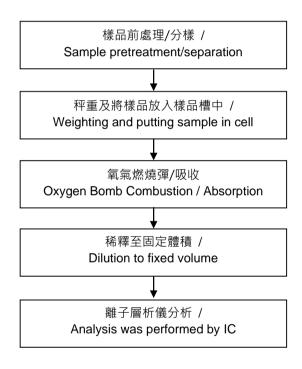
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鹵素分析流程圖 / Analytical flow chart of Halogen





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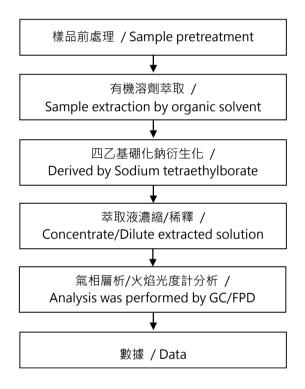
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有機錫分析流程圖 / Analytical flow chart - Organic-Tin



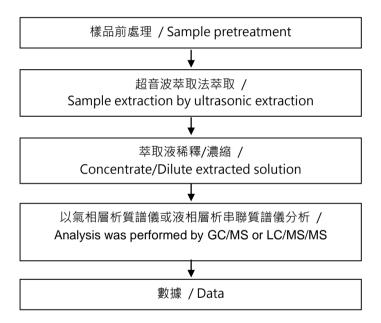


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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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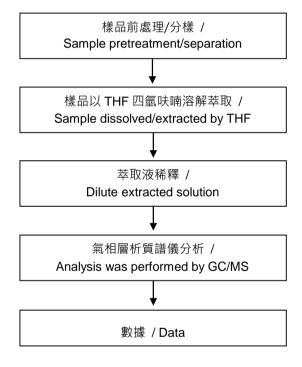
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

【測試方法/Test method: IEC 62321-8】





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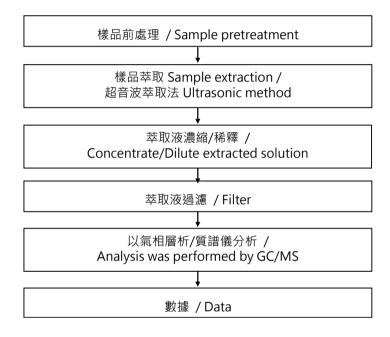
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD





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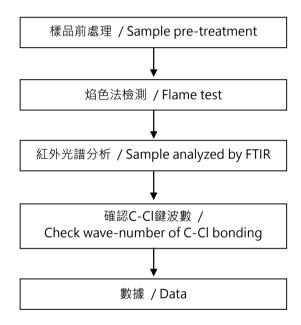
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC





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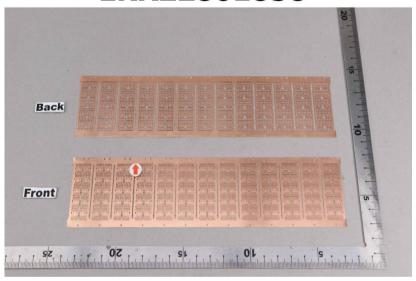
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

EKR22801838



** 報告結尾 (End of Report) **