

Test Report

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聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號

NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

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/on behalf of the applicant as):

送樣廠商(Sample Submitted Bv) 聯致科技股份有限公司 (ADVANCE MATERIALS CORPORATION)

樣品名稱(Sample Description)

AMC-832 HF 樣品型號(Style/Item No.) 收件日期(Sample Receiving Date) 2016/03/10

2016/03/10 TO 2016/03/17 測試期間(Testing Period)

測試需求(Test Requested):

(1) 依據客戶指定,參考RoHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試編、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, DEHP, DIBP contents in the submitted sample.)

(2) 依據客戶指定,檢測 PAHs 及其他測項. (As specified by client, to test PAHs and other item(s).)

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) :

(2) 根據客戶所提供的樣品,18項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 「列於德國產品安全法之其他產品」之限值要求. (Based upon the performed tests on the submitted sample, the test results of PAHs (18 items) comply with the limits of PAHs requirement (Category 3) Other products under ProdSG_J as set by German Committee on Product Safety (AfPS) GS PAHs.)



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測試結果(Test Results)

測試部位(PART NAME)No.1 : 黑色片狀 (BLACK SHEET)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	3. 04
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV- VIS.	2	n. d.
銻 / Antimony (Sb)	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n. d.
三氧化二銻 / Antimony trioxide (Sb ₂ 0 ₃)*** (CAS No.: 1309-64-4)	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP- AES.***	-	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果(Result)
紅磷 / Red phosphorus	**	本測試以熱裂解儀分析. / Analysis	- -	No.1 Negative
鈹 / Beryllium (Be)	mg/kg	was performed by Pyrolyzer-GC/MS. 参考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n. d.
氧化鈹 / Beryllium oxide (BeO)***	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP- AES.***	-	n. d.
鋇 / Barium (Ba)	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	9. 1
硒 / Selenium (Se)	mg/kg	参考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n. d.
砷 / Arsenic (As)	mg/kg	参考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n. d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
多氣聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.5	n. d.
多氣奈 / Polychlorinated Naphthalene (PCNs)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n. d.
多氣三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.5	n. d.
溴氯甲烷 / Bromochloromethane (CAS No.: 74-97-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
六氟化硫 / Sulfur Hexafluoride (SF6) (CAS No.: 2551-62-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
2- (3', 5'-二叔丁基-2'-羟基苯基)苯並 三氮唑 / 2- (3,5-di-tert-butyl-2- hydroxyphenyl)-2H-benzotriazole (CAS No.: 3846-71-7)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測之. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n. d.
環氧氯丙烷 / Epichlorohydrin (CAS No.: 106-89-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
聯氨 / Hydrazine (CAS No.: 7803-57-8; 302-01-2)	mg/kg	參考ASTM D 1385-07方法,以紫外光可見光譜儀做分析. / With reference to ASTM D 1385-07 method. Analyzed by UV-VIS.	10	n. d.
二氯化鈷 / Cobalt dichloride (CAS No.: 7646-79-9)	mg/kg	参考SGS內部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg		50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n. d.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n. d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之. / With	50	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg	reference to IEC 62321-8 (111/321/CD). Analysis was	50	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg	performed by GC/MS.	50	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg		50	n. d.
鄰苯二甲酸二正己酯 / DNHP (Di-n- hexyl phthalate) (CAS No.: 84-75-3)	mg/kg		50	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
鄰苯二甲酸二 (2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	mg/kg		50	n. d.
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) (CAS No.: 68515-42-4)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯 ,富C7 / DIHP (1,2- Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	mg/kg		50	n. d.
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α – HBCDD, β – HBCDD, γ – HBCDD) (CAS No.: 25637–99–4 and 3194–55–6 (134237–51–7, 134237–50–6, 134237–52–8))	mg/kg	参考IEC 62321: 2008方法,以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n. d.
短鏈氣化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	mg/kg	参考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	100	n. d.
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	参考Global SOP RSTS-E&E-121方法, 以液相層析/質譜儀分析. / With reference to Global SOP RSTS-E&E- 121. Analysis was performed by LC/MS.	10	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結果(Result)
(Tobt Teems)	(UIII t)	(me thod)	(MDL)	No. 1
四溴雙酚-A-雙 / TBBP-A-bis (CAS No.: 21850-44-2)	mg/kg	参考US EPA 3540C方法,以高效液相層析儀/二極體陣列偵測器/質譜儀檢測./ With reference to US EPA 3540C method. Analysis was performed by HPLC/DAD/MS.	5	n. d.
雙酚 A / Bisphenol A (CAS No.: 80-05-7)	mg/kg	参考RSTS-HL-229-1方法,以超高效能 液相層析串聯質譜儀檢測. / With reference to RSTS-HL-229-1 method. Analysis was performed by UPLC- MSMS.	1	n. d.
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n. d.
三丁基錫 / Tributyl Tin (TBT)	mg/kg	參考ISO 17353方法,以氣相層析儀/火焰光度偵測器檢測. / With reference to ISO 17353. Analysis was performed by GC/FPD.	0.03	n. d.
氧化雙三丁基錫 / Bis(tributyltin)oxide (TBTO)*** (CAS No.: 56-35-9)	mg/kg	參考ISO 17353方法,以氣相層析儀/火焰光度偵測器檢測. / With reference to ISO 17353. Analysis was performed by GC/FPD.	-	n. d.
三苯基錫 / Triphenyl Tin (TphT)	mg/kg	參考ISO 17353方法,以氣相層析儀/火焰光度偵測器檢測. / With reference to ISO 17353. Analysis was performed by GC/FPD.	0.03	n. d.
二丁基錫 / Dibutyl Tin (DBT)	mg/kg	參考ISO 17353方法,以氣相層析儀/火焰光度偵測器檢測. / With reference to ISO 17353. Analysis was performed by GC/FPD.	0.03	n. d.



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二辛基錫 / Dioctyl Tin (DOT)	mg/kg	參考ISO 17353方法,以氣相層析儀/火 焰光度偵測器檢測. / With reference to ISO 17353. Analysis was performed by GC/FPD.	0.03	n. d.
溴甲烷 / Bromomethane (CAS No.: 74-83-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative
甲醛 / Formaldehyde (CAS No.: 50-00-0)	mg/kg	參考ISO 17226-1(2008)方法,以高效 液相層析儀/二極體陣列偵測器檢測./ With reference to ISO 17226- 1(2008). Analysis was performed by HPLC/DAD.	3	n. d.
石綿 / Asbestos				
陽起石綿 / Actinolite (CAS No.: 77536-66-4)	%		-	Negative
鐵石綿(褐石綿) / Amosite (CAS No.: 12172-73-5)	%	參考EPA 600/R-93/116 / 立體顯微鏡 (SM), 分散染色式偏光顯微鏡 (DS-	-	Negative
斜方角閃石綿 / Anthophyllite (CAS No.: 77536-67-5)	%	PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116	-	Negative
溫石綿(白石綿) / Chrysotile (CAS No.: 12001-29-5)	%	method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light	-	Negative
青石綿 / Crocidolite (CAS No.: 12001-28-4)	%	Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative
透閃石綿 / Tremolite (CAS No.: 77536-68-6)	%	()	-	Negative



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果(Result)
	(6111 0)	(Me shou)	(MDL)	No. 1
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	650
鹵素 (氣) / Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	mg/kg	参考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	169
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n. d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n. d.
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.
一溴聯苯 / Monobromobiphenyl	mg/kg	1 -	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	参考IEC 62321-6: 2015方法,以氣相	5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg	層析/質譜儀檢測. / With reference	5	n. d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	to IEC 62321-6: 2015 and performed	-	n. d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg	by GC/MS.	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.
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.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
多環芳香烴 / Polycyclic Aromatic Hydrocarbons (PAHs)				
苊 / Acenaphthene (CAS No.: 83-32-9)	mg/kg		0.2	n. d.
苊烯 / Acenaphthylene (CAS No.: 208-96-8)	mg/kg		0.2	n. d.
蔥 / Anthracene (CAS No.: 120-12-7)	mg/kg	1	0.2	n. d.
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg		0.2	n. d.
苯騈(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg		0.2	n. d.
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg		0.2	n. d.
苯駢苝 / Benzo[g, h, i]perylene (CAS No.: 191-24-2)	mg/kg		0.2	n. d.
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg	參考AfPS GS 2014:01 PAK方法,以氣	0.2	n. d.
Chrysene (CAS No.: 218-01-9)	mg/kg	相層析/質譜儀檢測. / With	0.2	n. d.
二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	reference to AfPS GS 2014:01 PAK method. Analysis was performed by	0.2	n. d.
苯駢芴 / Fluoranthene (CAS No.: 206-44-0)	mg/kg	GC/MS.	0.2	n. d.
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg	1	0.2	n. d.
茚酮芘 / Indeno[1, 2, 3-c, d] pyrene (CAS No.: 193-39-5)	mg/kg		0.2	n. d.
茶 / Naphthalene (CAS No.: 91-20-3)	mg/kg		0.2	n. d.
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg		0.2	n. d.
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg		0.2	n. d.
苯(j)苯騈芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n. d.
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	n. d.
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg]	_	n. d.

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NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

號碼(No.): CE/2016/33468

測試項目 (Test Items)	單位 測試方法 (Method)	方法偵測 極限值	結果(Result)	
	, ,		(MDL)	No. 1
偶氮 (AZO) 1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
2): 聯苯胺 / BENZIDINE (CAS No.: 92-87-5)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
3): 4- 氣鄰甲苯胺 / 4-CHLORO-O-TOLUIDINE (CAS No.: 95-69-2)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
5): 鄰氨基二甲基偶氮 / 0- AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
6): 對硝基鄰甲苯胺 / 2-AMINO-4- NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
7): 對氣苯胺 / P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
8): 4-甲氧基-間苯二胺 / 2,4- DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
9): 4,4'-二氨基二苯甲烷 / 4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
10): 3,3'-二氯聯苯胺 / 3,3'- DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
11): 3,3'-二甲氧基聯苯胺 / 3,3'- DIMETHOXYBENZIDINE (CAS No.: 119-90- 4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
12): 3,3'-二甲基聯苯胺 / 3,3'- DIMETHYLBENZIDINE (CAS No.: 119-93- 7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷/3,3'-DIMETHYL-4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
14): 2-甲氧基-5-甲基聯苯 / P- CRESIDINE (2-METHOXY-5- METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
15): 4,4'-亞甲基雙(氯苯胺)/ 4,4'- METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE (CAS No.: 139-65-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
20): 2,4,5-三甲基苯胺 / 2,4,5-TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
22): 對氨基偶氮苯 / 4- AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n. d.
氟氯碳化物 / CFCs (Chlorofluorocarbons)				
Group I				
氟氯碳化物 (Chlorofluorocarbon)-11 (CAS No.: 75-69-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物 (Chlorofluorocarbon)-12 (CAS No.: 75-71-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物 (Chlorofluorocarbon)-113 (CAS No.: 76-13-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物(Chlorofluorocarbon)-114 (CAS No.: 76-14-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
氟氯碳化物(Chlorofluorocarbon)-115 (CAS No.: 76-15-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
Group III				
氟氯碳化物 (Chlorofluorocarbon)-13 (CAS No.: 75-72-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物 (Chlorofluorocarbon)-111 (CAS No.: 354-56-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物 (Chlorofluorocarbon)-112 (CAS No.: 76-12-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物 (Chlorofluorocarbon)-211 (CAS No.: 422-78-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物 (Chlorofluorocarbon)-212 (CAS No.: 3182-26-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物 (Chlorofluorocarbon)-213 (CAS No.: 2354-06-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
氟氯碳化物 (Chlorofluorocarbon)-214 (CAS No.: 29255-31-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物(Chlorofluorocarbon)-215 (CAS No.: 4259-43-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物 (Chlorofluorocarbon)-216 (CAS No.: 661-97-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯碳化物 (Chlorofluorocarbon)-217 (CAS No.: 422-86-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 / HCFCs (Hydrochlorofluorocarbons)				
氟氯氫碳化物(HCFC)-21 (CAS No.: 75-43-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-22 (CAS No.: 75-45-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-31 (CAS No.: 593-70-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
氟氯氫碳化物 (HCFC)-121 (CAS No.: 354-14-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-122 (CAS No.: 354-21-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-123 (CAS No.: 306-83-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-124 (CAS No.: 2837-89-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-131 (CAS No.: 359-28-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-132b (CAS No.: 1649-08-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-133a (CAS No.: 75-88-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
氟氯氫碳化物 (HCFC)-141b (CAS No.: 1717-00-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-142b (CAS No.: 75-68-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-221 (CAS No.: 422-26-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-222 (CAS No.: 422-49-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-223 (CAS No.: 422-52-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-224 (CAS No.: 422-54-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-225ca (CAS No.: 422-56-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.



Test Report

聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

號碼(No.): CE/2016/33468

測試項目 (Test Items)	單位 (Un:+)	測試方法 (Nothed)	方法偵測 極限値 (MDL)	結果 (Result)
(lest Items)	(Unit)	(Method)		No. 1
氟氯氫碳化物 (HCFC)-225cb (CAS No.: 507-55-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-226 (CAS No.: 431-87-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-231 (CAS No.: 421-94-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-232 (CAS No.: 460-89-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-233 (CAS No.: 7125-84-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-234 (CAS No.: 425-94-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-235 (CAS No.: 460-92-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.

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NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
氟氯氫碳化物 (HCFC)-241 (CAS No.: 666-27-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-242 (CAS No.: 460-63-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-243 (CAS No.: 460-69-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-244	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-251 (CAS No.: 421-41-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-252 (CAS No.: 819-00-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氟氯氫碳化物 (HCFC)-253 (CAS No.: 460-35-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.



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NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

測試項目 (Test Items)	單位 (Unit)	测試方法 (Nothod) 極限	方法偵測 極限值	E限值 A KESUIL	
	(UIII L)	(method)	(MDL)	No. 1	
氟氯氫碳化物 (HCFC)-261 (CAS No.: 420-97-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
氟氯氫碳化物 (HCFC)-262 (CAS No.: 421-02-03)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
氟氯氫碳化物 (HCFC)-271 (CAS No.: 430-55-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
海龍(Halons)					
海龍 (Halon)-1211 (CAS No.: 353-59-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
海龍 (Halon)-1301 (CAS No.: 75-63-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
海龍 (Halon)-2402 (CAS No.: 124-73- 2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	

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聯致科技股份有限公司

ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號

NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
不完全鹵化氟溴化物 / HBFCs (Hydrobromofluorocarbons)				
不完全鹵化氟溴化物 (HBFC)-21B2 (CHFBr2) (CAS No.: 1868-53-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-22B1 (CHF2Br) (CAS No.: 1511-62-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-31B1 (CH2FBr) (CAS No.: 373-52-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-121B4 (C2HFBr4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-122B3 (C2HF2Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-123B2 (C2HF3Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氣溴化物 (HBFC)-124B1 (C2HF4Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
不完全鹵化氟溴化物(HBFC)-131B3 (C2H2FBr3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-132B2 (C2H2F2Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-133B1 (C2H2F3Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-141B2 (C2H3FBr2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-142B1 (C2H3F2Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-151B1 (C2H4FBr)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-221B6 (C3HFBr6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.

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聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號

NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
不完全鹵化氟溴化物 (HBFC)-222B5 (C3HF2Br5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-223B4 (C3HF3Br4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物(HBFC)-224B3 (C3HF4Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物(HBFC)-225B2 (C3HF5Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-226B1 (C3HF6Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-231B5 (C3H2FBr5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-232B4 (C3H2F2Br4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.

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NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
不完全鹵化氟溴化物 (HBFC)-233B3 (C3H2F3Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-234B2 (C3H2F4Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-235B1 (C3H2F5Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物(HBFC)-241B4 (C3H3FBr4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物(HBFC)-242B3 (C3H3F2Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-243B2 (C3H3F3Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-244B1 (C3H3F4Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.



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ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
不完全鹵化氟溴化物 (HBFC)-251B3 (C3H4FBr3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-252B2 (C3H4F2Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-253B1 (C3H4F3Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物(HBFC)-261B2 (C3H5FBr2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-262B1 (C3H5F2Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
不完全鹵化氟溴化物 (HBFC)-271B1 (C3H6FBr)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物 / HFCs (Hydrofluorocarbon)				
氫氟碳化物 (HFC)-23 (CHF3) (CAS No.: 75-46-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.



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號碼(No.): CE/2016/33468

測試項目 (Test Items)	單位 測試方法		方法偵測 極限值	結果(Result)
	(Unit)	(Method)	(MDL)	No. 1
氫氟碳化物 (HFC)-32 (CH2F2) (CAS No.: 75-10-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物 (HFC)-41 (CH3F) (CAS No.: 593-53-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物(HFC)-43-10mee(C5H2F10)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物 (HFC)-125 (C2HF5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物 (HFC)-134 (C2H2F4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物(HFC)-134a(CH2FCF3)(CAS No.: 811-97-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物(HFC)-143(CH3F3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.

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號碼(No.): CE/2016/33468

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結果(Result)
(lest items)	(UIII L)	(method)	(MDL)	No. 1
氫氟碳化物(HFC)-143a(CH3F3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物(HFC)-152a(C2H4F2)(CAS No.: 75-37-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物 (HFC)-227ea (C3HF7) (CAS No.: 431-89-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物 (HFC)-236fa (C3H2F6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物(HFC)-236ea(C3H2F6)(CAS No.: 431-63-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物(HFC)-245ca(C3H3F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
氫氟碳化物 (HFC)-245fa (C3H3F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質	1	n. d.

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performed by GC/MS.

譜儀檢測. / With reference to US EPA 5021 method. Analysis was



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聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號

NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1	
氫氟碳化物(HFC)-365mfc(C4H5F5)	mg/kg	mg/kg 参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.		n. d.	
全氟碳化物 / PFCs (Perfluorocarbon)					
四氟甲烷 / F14 (CAS No.: 75-73-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
六氟乙烷 / Fluorocarbon 116 (CAS No.: 76-16-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
八氟丙烷 / Freon 218 (CAS No.: 76-19-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
十氟丁烷 / Decafluorobutane (CAS No.: 355-25-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
八氟環丁烷 / Freon C318 (CAS No.: 115-25-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
全氟-1-丁烯 / Perfluor-1-butene (CAS No.: 357-26-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	

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NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

測試項目 (Test Items)			方法偵測 極限値 (MDL)	結果 (Result) No.1	
全氟異丁烯 / perfluorisobutene (CAS No.: 382-21-8)		參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
1,4-二氫八氟丁烷 / 1,4-dihydrooctafluorobutane (CAS No.: 377-36-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
2-全氟甲基丁烷 / nonafluor-2- (trifluoromethyl)butane (CAS No.: 594-91-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
全氟戊烷 / perfluoro-n-pentane (CAS No.: 678-26-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
2-全氟甲基戊烷 / 2- perfluoromethylpentane (CAS No.: 355-04-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
全氟己烷 / perfluorohexane (CAS No.: 355-42-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
氯化碳氫化物 / CHCs (Chlorinate hydrocarbon)					
1, 1, 1, 2-四氯乙烷 / 1, 1, 1, 2- Tetrachloroethane (CAS No.: 630-20- 6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	



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聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION

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桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1	
1,1,1-三氯乙烷 / 1,1,1- Trichloroethane (CAS No.: 71-55-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
1,1,2,2-四氯乙烷 / 1,1,2,2- Tetrachloroethane (CAS No.: 79-34-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
1,1,2-三氯乙烷 / 1,1,2- Trichloroethane (CAS No.: 79-00-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
1,1-二氯乙烷 / 1,1-Dichloroethane (CAS No.: 75-34-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
1,1-二氯乙烯 / 1,1-Dichloroethene (CAS No.: 75-35-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
1,1-二氯丙烯 / 1,1-Dichloropropene (CAS No.: 563-58-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
1, 2, 3-三氯丙烷 / 1, 2, 3- Trichloropropane (CAS No.: 96-18-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
1,2-二氯丙烷 / 1,2-Dichloropropane (CAS No.: 78-87-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
1,3-二氯丙烷 / 1,3-Dichloropropane (CAS No.: 142-28-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
2,2-二氯丙烷 / 2,2-Dichloropropane (CAS No.: 594-20-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
四氯甲烷(四氯化碳)/ Carbon tetrachloride (CAS No.: 56-23-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
氣乙烷 / Chloroethane (CAS No.: 75-00-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	
氯仿 / Chloroform (CAS No.: 67-66-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.	

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
氯甲烷 / Chloromethane (CAS No.: 74-87-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
順-1,2-二氯乙烯 / cis-1,2- Dichloroethene (CAS No.: 156-59-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
順-1,3-二氯丙烯 / cis-1,3- Dichloropropene (CAS No.: 10061-01- 5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
六氯丁二烯 / Hexachlorobutadiene (CAS No.: 87-68-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
二氯甲烷 / Dichloromethane (CAS No.: 75-09-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
四氯乙烯 / Tetrachloroethene (CAS No.: 127-18-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
反-1,2-二氯乙烯 / trans-1,2- Dichloroethene (CAS No.: 156-60-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.

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NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
反-1,3-二氯丙烯 / trans-1,3- Dichloropropene (CAS No.: 10061-02- 6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)		参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n. d.

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 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. 石綿定性分析試驗範圍: <0.1%~100%,石綿鑑定的判定基準是以檢出含有石綿纖維為『Positive』,未檢出石綿纖維為 "Negative of Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
- 8. ***: 該物質是由三丁基錫或各別元素(例如: 鈹、錦)之測試結果計算得知. 其MDL是針對三丁基錫或元素(例如: 鈹、 銻)之評估. (The substance was calculated by the test results of Tributyl Tin or element (Ex. Beryllium, Antimony respectively). The MDL was evaluated for Tributyl Tin or element (Ex. Beryllium, Antimony respectively.))
- 9. 參數換算表 / Parameter Conversion Table: Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH tw.asp

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10. 鈹青銅是一種主要成份為鈹及銅的合金,當偵測不到總鈹含量時,亦表示不含鈹青銅. (Since beryllium copper is a metal alloy of copper and beryllium and the test result is n.d. for beryllium, we can have conclusion that the beryllium copper is n.d..)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0,001%(10ppm),在半成品、成品或零部件中不得超過0,1%(1000ppm),在紡織品或塗 層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)

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Test Report

聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

Δ 德國產品安全委員會(AfPS) GS PAHs 要求 /

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

號碼(No.): CE/2016/33468

	第1類(Category 1)	第2類(Ca	ategory 2)	第3類(Ca	ategory 3)
項目 (Parameter)	意圖放入嘴內的材料 或玩具會與皮膚有所 接觸(超過30秒). (Material indented to be put in the mouth or toys with intended skin	不屬於第1類的材料並可預見與皮膚 接觸逾30秒(長期或經常與皮膚接 觸). (Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long- term skin or frequent contact).)		可預見與皮膚接觸短於30秒(短期與皮膚接觸),以及不屬於第1類或第2類的材料. (Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (shortterm skin contact).)	
	contact (longer than 30 s).)	列於2009/48/EC 之玩具(Toy under 2009/48/EC)	列於德國產品安全 法之其他產品 (Other products under ProdSG)	列於2009/48/EC 之玩具 (Toy under 2009/48/EC)	列於德國產品安全 法之其他產品 (Other products under ProdSG)
Naphthalene	< 1	<	< 2	<	10
Acenaphthylene					
Acenaphthene					
Fluorene					
Phenanthrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Anthracene					
Fluoranthene					
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
18項PAH總濃度 (Sum of 18 PAH)	< 1	< 5	< 10	< 20	< 50

日期(Date): 2016/03/17

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單位(Unit): mg/kg



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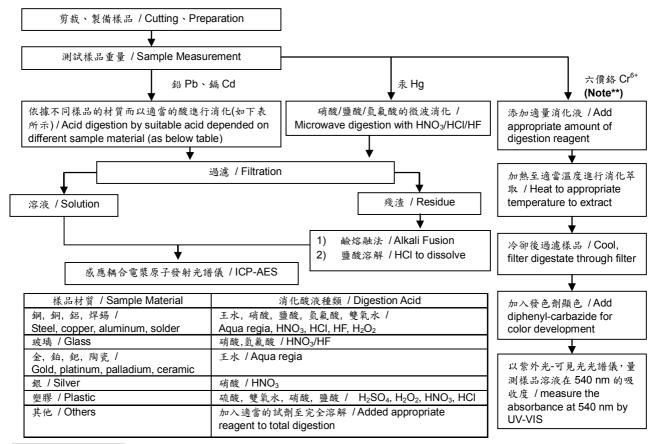
聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號

NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

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)

- 測試人員:楊登偉 / Technician: Climbgreat Yang
- 測試負責人:張啟興 / Supervisor: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.



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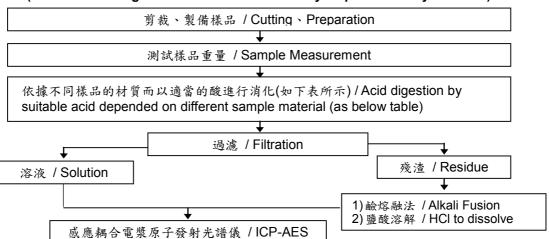
聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION

桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

> 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.

測試人員:楊登偉 / Technician: Climbgreat Yang 測試負責人:張啟興 / Supervisor: Troy Chang

元素以 ICP-AES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-AES)



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 , 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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NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

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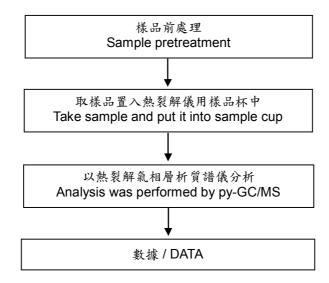
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紅磷分析流程 / Analytical flow chart - Red phosphorus

日期(Date): 2016/03/17

測試人員:林建宇/Technician: Roy Lin

測試負責人:張啟興 / Supervisor: Troy Chang





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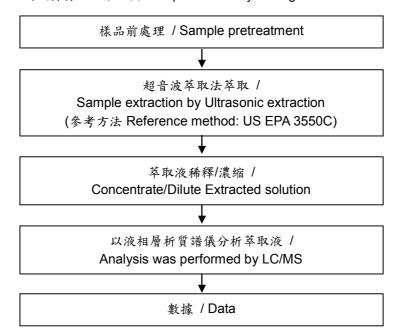


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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

日期(Date): 2016/03/17

測試人員:翁賜彬 / Technician: Roman Wong 測試負責人:張啟興 / Supervisor: Troy Chang



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號碼(No.): CE/2016/33468

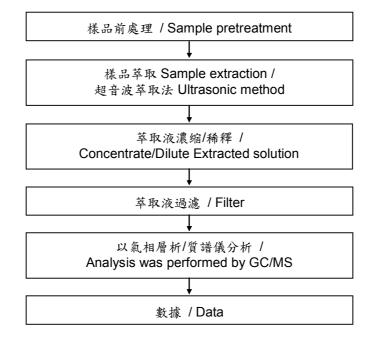
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多氯聯苯分析流程圖 / Analytical flow chart - PCBs

日期(Date): 2016/03/17

測試人員:林建宇 / Technician: Roy Lin

測試負責人:張啟興 / Supervisor: Troy Chang





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聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

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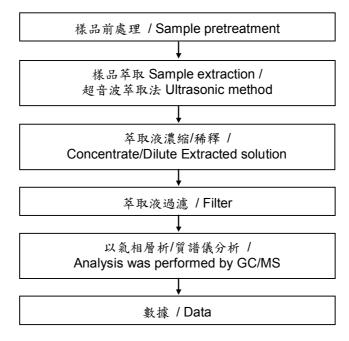
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多氯奈分析流程圖 / Analytical flow chart - PCNs

日期(Date): 2016/03/17

■ 測試人員:林建宇 / Technician: Roy Lin

測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

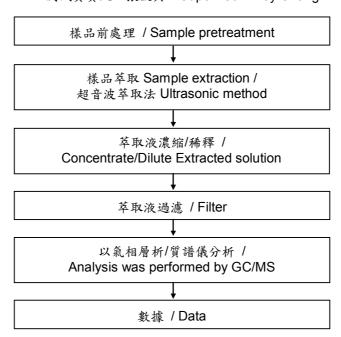
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多氯三聯苯分析流程圖 / Analytical flow chart - PCTs

日期(Date): 2016/03/17

- 測試人員:曾勃鈞 / Technician: Barry Tseng
- 測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

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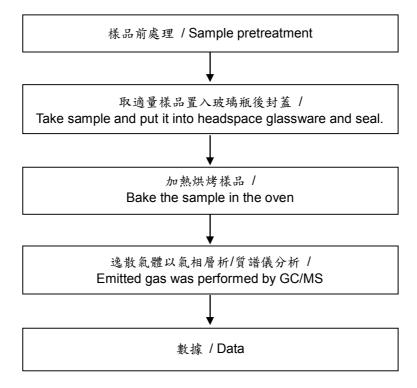
揮發性有機化合物分析流程圖 / Analytical flow chart - volatile organic compounds (VOCs)

日期(Date): 2016/03/17

測試人員:吳椿景 / Technician: Chun Wu

測試負責人: 陳新智 / Supervisor: Shinjyh Chen

【参考方法(Reference method): US EPA 5021】





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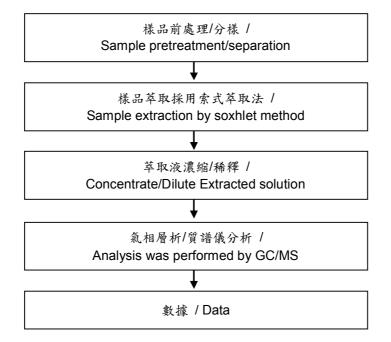


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<u>苯並三唑類化合物分析流程圖 / Analytical flow chart - Benzotriazole</u>

日期(Date): 2016/03/17

測試人員:翁賜彬 / Technician: Roman Wong 測試負責人:張啟興 / Supervisor: Troy Chang





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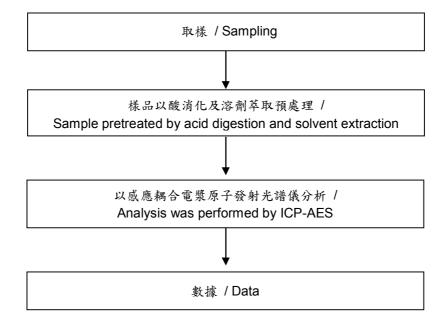
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二氯化鈷分析流程圖 / Analytical flow chart - Cobalt dichloride

日期(Date): 2016/03/17

測試人員:楊登偉 / Technician: Climbgreat Yang

測試負責人:張啟興 / Supervisor: Troy Chang



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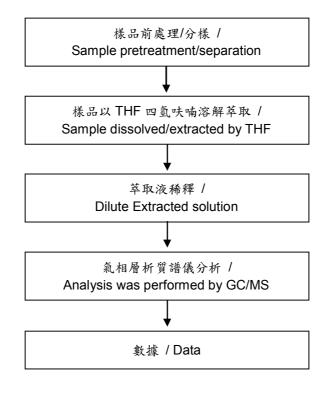
<u>可塑劑分析流程圖 / Analytical flow chart - Phthalate</u>

日期(Date): 2016/03/17

測試人員:徐毓明 / Technician: Andy Shu

測試負責人:張啟興 / Supervisor nt: Troy Chang

【測試方法/Test method: IEC 62321-8】





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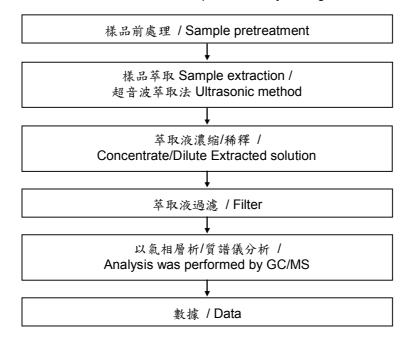
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NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

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

測試人員:翁賜彬 / Technician: Roman Wong

測試負責人:張啟興 / Supervisor: Troy Chang





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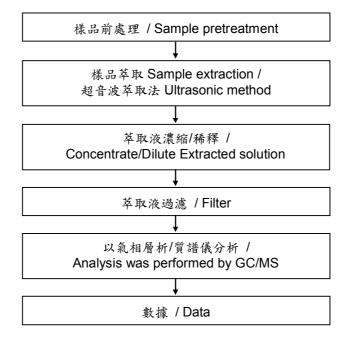
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氯化石蠟分析流程圖 / Analytical flow chart - Chlorinated Paraffins

日期(Date): 2016/03/17

■ 測試人員:林建宇 / Technician: Roy Lin

測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

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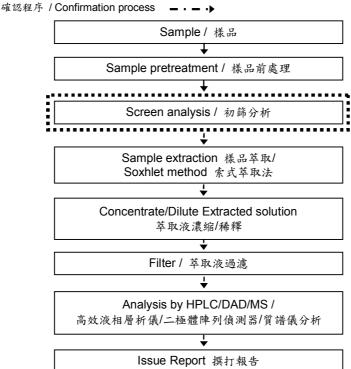
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四溴雙酚-A-雙分析流程圖 / Analytical flow chart - TBBP-A-bis

測試人員: 翁賜彬 / Technician: Roman Wong 測試負責人:張啟興 / Supervisor: Troy Chang

日期(Date): 2016/03/17

初次測試程序 / First testing process 選擇性篩檢程序 / Optional screen process ••





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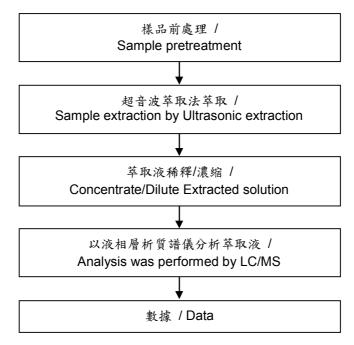
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四溴雙酚-A 分析流程圖 / Analytical flow chart - TBBP-A

日期(Date): 2016/03/17

- 測試人員:林建宇 / Technician: Roy Lin
- 測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

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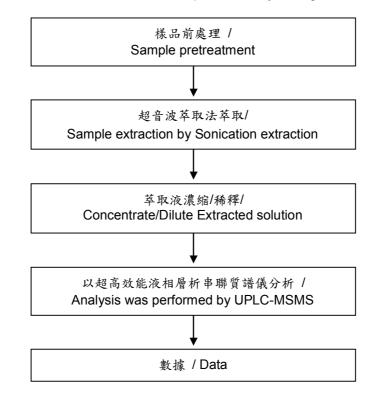


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雙酚A分析流程圖 / Analytical flow chart - Bisphenol A

日期(Date): 2016/03/17

- 測試人員:林建宇 / Technician: Roy Lin
- 測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

桃園市蘆竹區南山路二段498-2號

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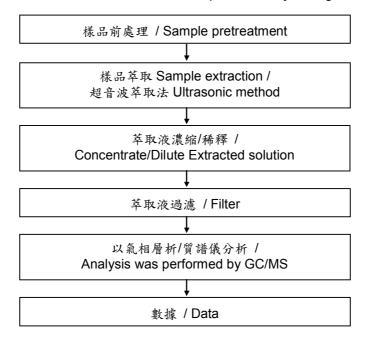


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富馬酸二甲酯分析流程圖 / Analytical flow chart - Dimethyl Fumarate

日期(Date): 2016/03/17

測試人員:翁賜彬 / Technician: Roman Wong 測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

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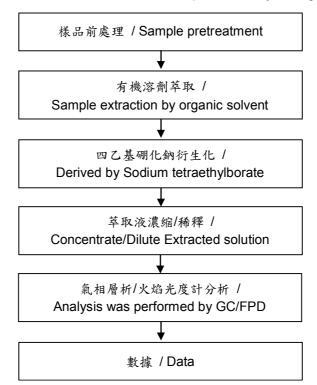
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<u>有機錫分析流程圖 / Analytical flow chart - Organic-Tin</u>

日期(Date): 2016/03/17

- 測試人員: 林建宇 / Technician: Roy Lin
- 測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

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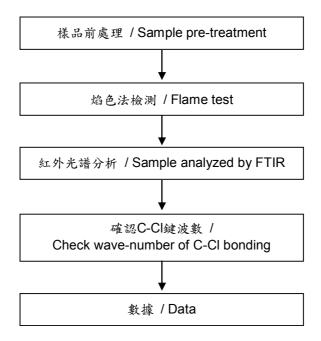
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

日期(Date): 2016/03/17

測試人員:林建宇 / Technician: Roy Lin

測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

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號碼(No.): CE/2016/33468



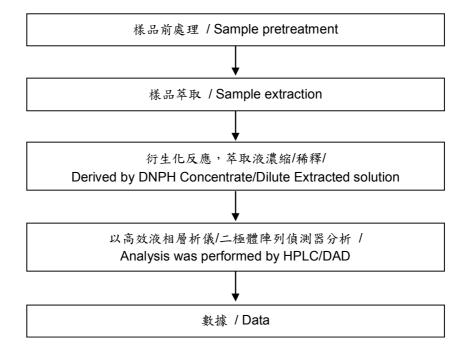
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甲醛分析流程圖 / Analytical flow chart - Formaldehyde

日期(Date): 2016/03/17

測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang



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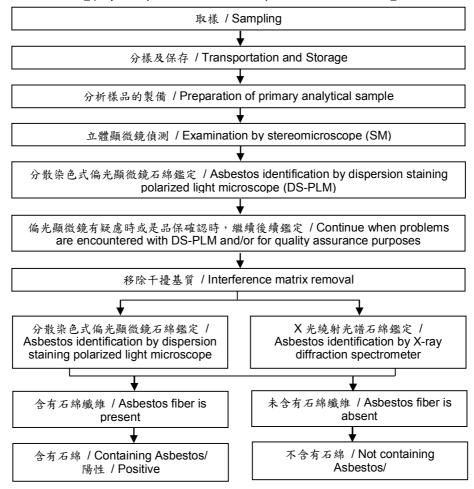
號碼(No.): CE/2016/33468

石綿鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

日期(Date): 2016/03/17 頁數(Page): 57 of 61

- 測試人員:高鍵忠 / Technician: Victor Kao
- 測試負責人:魏明芬 / Supervisor: Wendy Wei

【参考方法(Reference method): EPA 600/R-93/116】





Test Report

聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

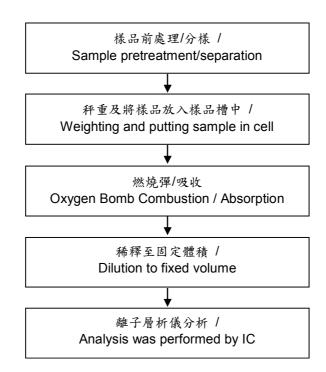
號碼(No.): CE/2016/33468

頁數(Page): 58 of 61

<u> 鹵素分析流程圖 / Analytical flow chart - Ha</u>logen

日期(Date): 2016/03/17

測試人員: 陳恩臻 / Technician: Rita Chen 測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

號碼(No.): CE/2016/33468

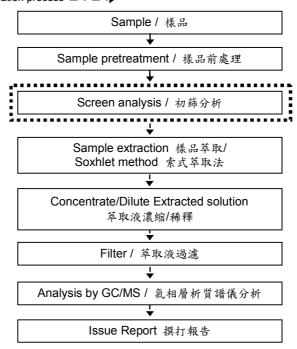
日期(Date): 2016/03/17 頁數(Page): 59 of 61

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

測試人員: 翁賜彬 / Technician: Roman Wong

測試負責人:張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process _ 選擇性篩檢程序 / Optional screen process •••••• 確認程序 / Confirmation process _ - - - →





Test Report

聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號

NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

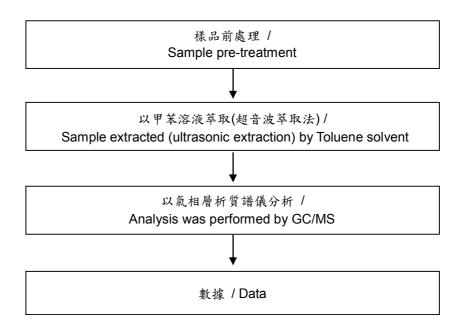
號碼(No.): CE/2016/33468

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

日期(Date): 2016/03/17

測試人員:翁賜彬 / Technician: Roman Wong 測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

聯致科技股份有限公司 ADVANCE MATERIALS CORPORATION 桃園市蘆竹區南山路二段498-2號 NO. 498-2, SEC. 2, NAN SAN RD., LUCHU, TAOYUAN CITY, TAIWAN, 338

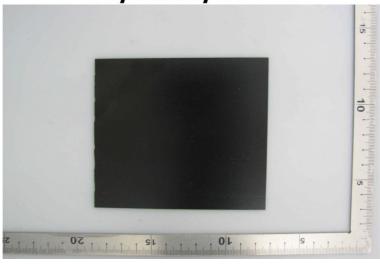
號碼(No.): CE/2016/33468

* 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.)

日期(Date): 2016/03/17

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** 報告結尾 (End of Report) **

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