

試驗報告

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Test Report

天二科技股份有限公司

EVER OHMS TECHNOLOGY CO., LTD.

高雄市前鎮區高雄加工出口區南四路3號

NO.3, SOUTH 4TH ROAD, K.E.P.Z. KAOHSIUNG CITY, 80681 TAIWAN R.O.C.

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):

樣品名稱(Sample Description) 樣品型號(Style/Item No.)

收件日期(Sample Receiving Date) 測試期間(Testing Period)

送樣廠商(Sample Submitted By)

: LEAD FREE CHIP RESISTORS & CHIP ARRAYS

: CR SERIES/ TCR SERIES/ CRR SERIES/ CRH SERIES/ CRL SERIES/ CRW SERIES/ CRA SERIES/ QR SERIES/ QRA SERIES/ ST SERIES/ STA SERIES/ HR SERIES

: 2018/01/29

: 2018/01/29 TO 2018/02/02

: 天二科技股份有限公司 (EVER OHMS TECHNOLOGY CO., LTD.)

測試需求(Test Requested)

: 依據客户指定,參考RoHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試 鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

測試方法(Test Method) 測試結果(Test Results)

SGS Taiwan Limited

論(Conclusion)

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

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: 根據客户所提供的樣品,其鎬、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指令暨(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 and amending Directive (EU) 2015/863.)

報告簽署人/Ray Char Signed for and on behalt of

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測試結果(Test Results)

測試部位(PART NAME)No.1

黑色/白色 LEAD FREE CHIP RESISTORS & CHIP ARRAYS (BLACK/WHITE LEAD FREE CHIP RESISTORS & CHIP ARRAYS)

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	限値 (Limit)
鎬 / Cadmium (Cd)	mg/kg	参考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.	100
鉛 / Lead (Pb)	mg/kg	参考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	151	1000
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.	1000
六價絡 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321-7-2:2017,以UV-VIS檢 測. / With reference to IEC 62321-7- 2:2017 and performed by UV-VIS.	8	n.d.	1000
多溴聯苯總和 / Sum of PBBs			-	n.d.	1000
一溴聯苯 / Monobromobiphenyl	1		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	1	參考IEC 62321-6: 2015方法, 以氣相層	5	n.d.	_
三溴聯苯 / Tribromobiphenyl	1		5	n.d.	_
四溴聯苯 / Tetrabromobiphenyl	1		5	n.d.	=
五溴聯苯 / Pentabromobiphenyl	mg/kg	析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by	5	n.d.	1
六溴聯苯 / Hexabromobiphenyl		GC/MS.	5	n.d.	-
七溴聯苯 / Heptabromobiphenyl			5	n.d.	-
八溴聯苯 / Octabromobiphenyl	1		5	n.d.	-
九溴聯苯 / Nonabromobiphenyl	1		5	n.d.	-
十溴聯苯 / Decabromobiphenyl			5	n.d.	-

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多溴聯苯醚總和 / Sum of PBDEs	_		-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether		參考IEC 62321-6: 2015方法, 以氣相層	5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by	5	n.d.	=
六溴聯苯醚 / Hexabromodiphenyl ether		GC/MS.	5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether		OC/ MO.	5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	-
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)		參考IEC 62321-8:2017, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	_		50	n.d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)			50	n.d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)			50	n.d.	-
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0, 68515-48-0)			50	n.d.	-
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0, 68515-49-1)			50	n.d.	-

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鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)			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	参考IEC 62321-8:2017, 以氣相層析儀/質譜儀檢測./With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	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)			50	n.d.	ı
绨 / Antimony (Sb)	,.	參考US EPA 3052方法, 用感應藕合電漿原子發射光譜儀檢測錦含量. / With	2	n.d.	-
三氧化二錦 / Antimony trioxide (Sb2O3)*** (CAS No.: 1309-64-4)	mg/kg	reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	-	n.d.	-
六溴環十二烷及所有主要被辨别出的異構物 / 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.	-

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富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	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.	0.1	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	-
紅磷 / Red phosphorus	**	本測試以熱裂解-氣相層析/質譜儀分析. / Analysis was performed by Pyrolyzer-GC/MS.	-	Negative	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS)	/1	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(銨) / PFOA (CAS No.: 335-67-1)	mg/kg		10	n.d.	-
鹵素 / Halogen					
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)			50	n.d.	-
鹵素(氯)/ Halogen-Chlorine (C1) (CAS No.: 022537-15-1)	mg/kg	参考BS EN 14582:2016,以離子層析儀 分析. / With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.	-
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 010097-32-2)			50	n.d.	-
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 014362-44-8)			50	n.d.	-

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多環芳香烴 / Polynuclear Aromatic					
Hydrocarbons (PAHs)					
苊 / Acenaphthene (CAS No.: 83-32-9)			0.2	n.d.	-
苊烯 / Acenaphthylene (CAS No.: 208-96-8)			0.2	n.d.	-
蒽 / Anthracene (CAS No.: 120-12-7)			0.2	n.d.	-
苯駢蒽 / Benzo(a)anthracene (CAS No.: 56-55-3)		參考AfPS GS 2014:01 PAK方法,以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.	-
苯騈(a)芘 / Benzo[a]pyrene (CAS No.: 50- 32-8)			0.2	n.d.	-
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)			0.2	n.d.	-
苯駢苝 / Benzo[g,h,i]perylene (CAS No.: 191- 24-2)			0.2	n.d.	-
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg		0.2	n.d.	-
Chrysene (CAS No.: 218-01-9)			0.2	n.d.	-
二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)			0.2	n.d.	-
苯駢芴 / Fluoranthene (CAS No.: 206-44-0)			0.2	n.d.	-
芴 / Fluorene (CAS No.: 86-73-7)			0.2	n.d.	-
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)			0.2	n.d.	-
萘 / Naphthalene (CAS No.: 91-20-3)			0.2	n.d.	-
菲 / Phenanthrene (CAS No.: 85-01-8)			0.2	n.d.	-
芘 / Pyrene (CAS No.: 129-00-0)			0.2	n.d.	-
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)			0.2	n.d.	-
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)			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.3, SOUTH 4TH ROAD, K.E.P.Z. KAOHSIUNG CITY, 80681 TAIWAN R.O.C.

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限値)
- 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. ***: 該物質是由"銻"之測試結果計算得知. 其MDL是針對"銻"之評估. (The substance was calculated by the test results of Antimony. The MDL is evaluated for Antimony.)

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 1µg/m².)

全氟辛烷磺酸指全氟辛烷磺酸和它的衍生物包括全氟辛烷磺酸,全氟辛基磺醯胺,N-甲基全氟辛烷磺酰胺,N-乙基全氟辛烷 磺酰胺, N-甲基全氟辛基磺酰基氨基乙醇, N-乙基全氟辛基磺酰基氨基乙醇。(PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.)

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德國產品安全委員會(AfPS) GS PAHs 要求 /

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

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)		第3類 (Category 3)		
	意圖放入嘴内的材料 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	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		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 unde category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term 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 Anthracene Fluoranthene Pyrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
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	

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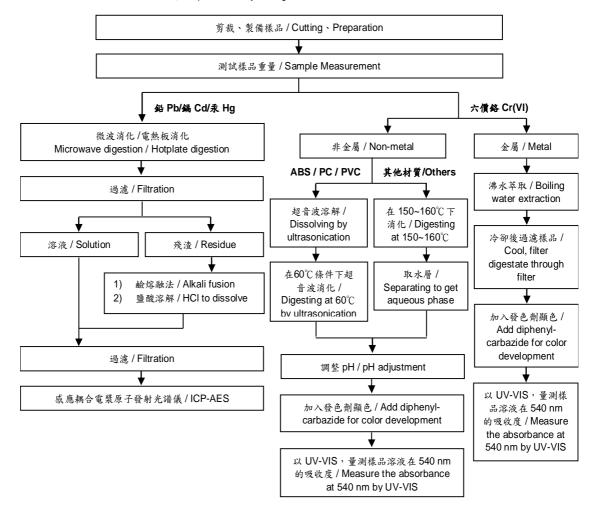
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重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員:劉俊宏/Technician:Jony Liu
- 測試負責人:張伯睿/ Supervisor: Ray Chang



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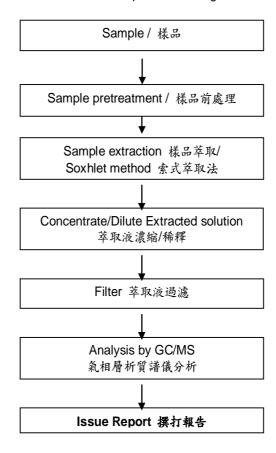
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)测試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen 2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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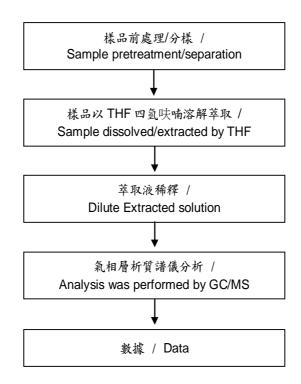
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen
- 測試負責人: 張伯睿 / Name of the person in charge of measurement: Ray Chang

【測試方法/Test method: IEC 62321-8】



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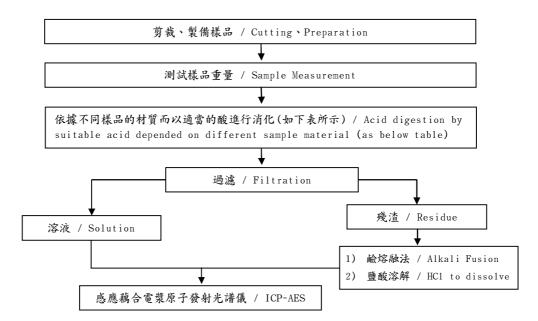
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:劉俊宏 / Name of the person who made measurement: Jony Liu
- 3) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray 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, HNO3, HC1, HF, H2O2
玻璃 / Glass	硝酸,氫氟酸 / HNO3/HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / HzOa, HzOz, HNOa, HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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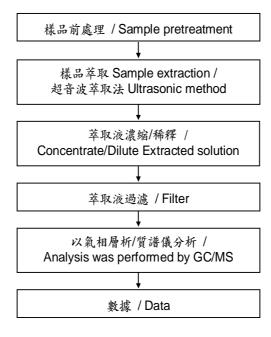
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 1) 測試人員: 陳威錚/ Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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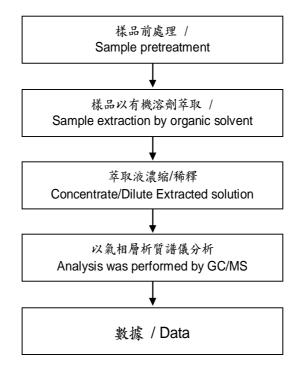
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富馬酸二甲酯分析流程圖 / **Analytical flow chart of Dimethyl Fumarate content**

- 1) 測試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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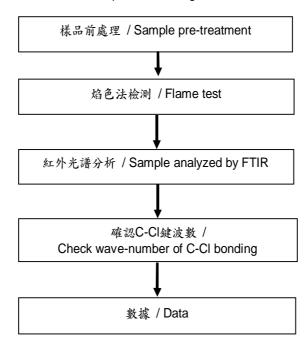
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

1)測試人員: 戴秀純 / Name of the person who made measurement: Hannah Tai 2)測試負責人: 林立翔 / Name of the person in charge of measurement: Roger Lin



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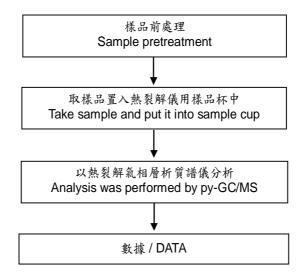
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Test Report

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

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang



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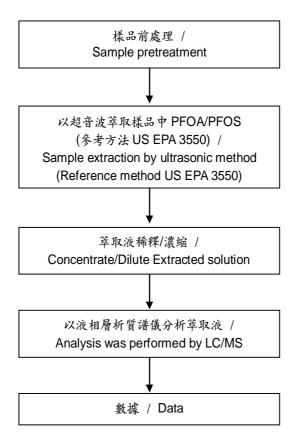
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全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)測試人員: 黄璟瓔 / Name of the person who made measurement: Ginny Huang

2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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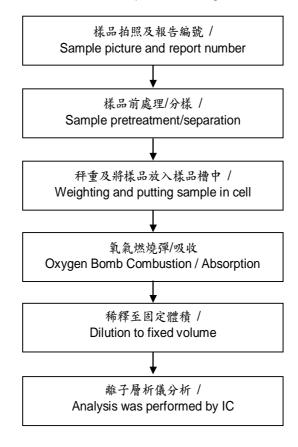
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員: 洪秀真/ Name of the person who made measurement: Jean Hung
- 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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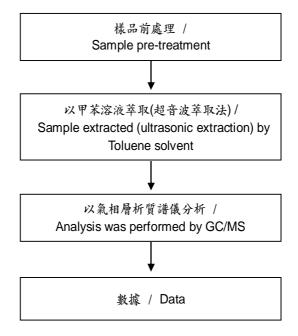
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多苯環芳香族化合物分析流程圖 / PAHs (Poly Aromatic Hydrocarbons) analytical flow chart

1)測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen

2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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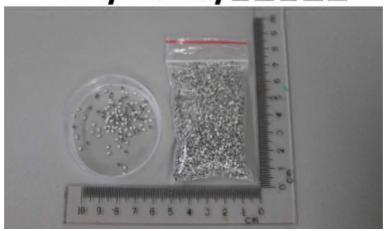
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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位。* (The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2018/12122



** 報告結尾 (End of Report) **

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