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Test Report

台灣興勝半導體材料股份有限公司 SH ELECTRONICS TAIWAN CO., LTD 高雄市楠梓加工區東七街16號 NO. 16, EAST 7TH ST., N. E. P. Z KAOHSIUNG, TAIWAN. R.O. C

以下測試樣品係由客戶送樣,且由客戶聲稱並經客戶確認如下(The following samples was/were submitted and identified by/on behalf of the client as):

送樣廠商(Sample Submitted By) : 台灣興勝半導體材料股份有限公司 (SH ELECTRONICS TAIWAN CO., LTD)

樣品名稱(Sample Description) : LEAD FRAME 樣品型號(Style/Item No.) : A194/C194 收件日期(Sample Receiving Date) 2019/11/11

測試期間(Testing Period) 2019/11/11 to 2019/11/19

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測試鍋、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).)

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

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/張伯睿/博士/技術經 Ray Chang, Ph.D./Manager -Te

Signed for and on behalf of **SGS Taiwan Limited**

化學實驗室-高雄/Chemical Laborator



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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 銅色金屬 (COPPER COLORED METAL)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) NO.1	法規 限值 (Limit)
鎘 / Cadmium (Cd)	mg/kg	参考IEC 62321-5: 2013,以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-0ES.	2	n. d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013,以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-0ES.	2	18.8	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4:2013+AMD1:2017,以感應 耦合電漿發射光譜儀檢測. / With reference to IEC 62321- 4:2013+AMD1:2017 and performed by ICP- OES.	2	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	μg/cm²	参考IEC 62321-7-1:2015,以UV-VIS檢測. / With reference to IEC 62321-7-1:2015 and performed by by UV-VIS.	0.10	n. d.	-
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	_
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	_
四溴聯苯 / Tetrabromobiphenyl	mg/kg	參考IEC 62321-6:2015,以氣相層析/質譜	5	n. d.	_
五溴聯苯 / Pentabromobiphenyl	mg/kg	儀檢測. / With reference to IEC 62321-	5	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg	6:2015 and performed by GC/MS.	5	n.d.	_
七溴聯苯 / Heptabromobiphenyl	mg/kg		<u>5</u>	n. d.	_
八溴聯苯 / Octabromobiphenyl	mg/kg		<u>5</u>	n. d.	_
九溴聯苯 / Nonabromobi pheny l	mg/kg	1	<u>5</u> 5	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		ე	n. d.	_



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



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) NO.1	法規 限值 (Limit)
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	參考IEC 62321-8:2017,以氣相層析/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)	mg/kg		50	n. d.	-
鄰苯二甲酸二庚酯 / DHPP (Diheptyl Phthalate) (CAS No.: 3648-21-3)	mg/kg		50	n. d.	-
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.	-
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	mg/kg		50	n. d.	-
鄰苯二甲酸二正戊酯/ DNPP(Di-n-pentyl phthalate) (CAS No.: 131-18-0)	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	參考IEC 62321: 2008,以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008. Analysis was performed by GC/MS.	5	n. d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) NO.1	法規 限值 (Limit)
鹵素 / Halogen					
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	参考BS EN 14582:2016,以離子層析儀檢 測. / With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n. d.	-
鹵素 (氣) / Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	mg/kg		50	n. d.	-
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.	-
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	參考CEN/TS 15968 (2010),以液相層析/串聯質譜儀檢測. / With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MSMS.	0.01	n. d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg		0.01	n. d.	-
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	参考US EPA 3550C: 2007,以氣相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. 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	-
福馬林(甲醛)/ Formaldehyde (CAS No.: 50-00-0)	mg/kg	參考ISO 17226-1,以高效液相層析儀/二極 體陣列偵測器檢測. / With reference to ISO 17226-1. Analysis was performed by HPLC/DAD.	3	n. d.	-
銻 / Antimony (Sb)	mg/kg	参考US EPA 3052: 1996,以感應耦合電漿發射光譜儀檢測. / With reference to US EPA 3052: 1996. Analysis was performed by ICP-OES.	2	n. d.	_
鈹 / Beryllium (Be)	mg/kg		2	n. d.	-
砷 / Arsenic (As)	mg/kg		2	n. d.	-



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備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出)
- 4. "-" = Not Regulated (無規格值)
- 5. (#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
 - 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
- 6. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 7. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 2019/1021

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 $1\mu g/m^2$.)

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

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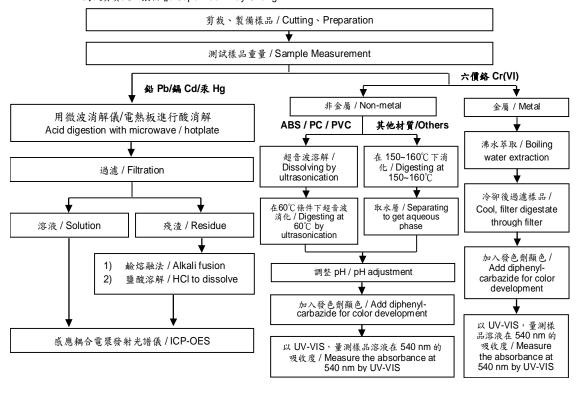
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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





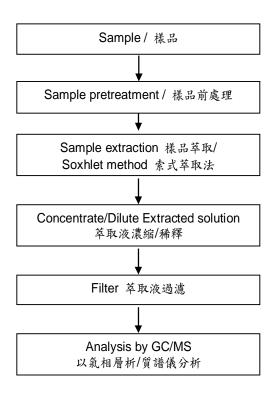
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

測試人員:陳威錚 / Technician: Dorothy Chen 測試負責人:張伯睿 / Supervisor: Ray Chang





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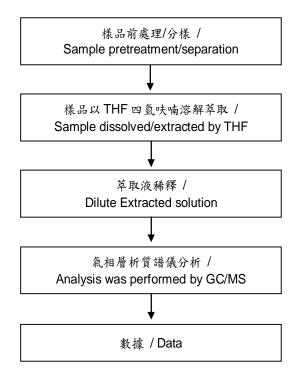
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

測試人員:陳威錚 / Technician: Dorothy Chen 測試負責人:張伯睿 / Supervisor: Ray Chang

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【測試方法/Test method: IEC 62321-8】



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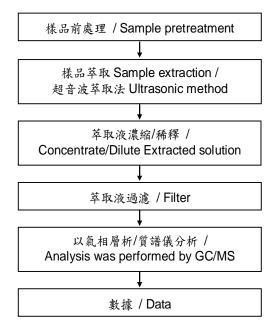
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

測試人員:陳威錚 / Technician: Dorothy Chen 測試負責人:張伯睿 / Supervisor: Ray Chang





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

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- 測試人員: 洪秀真 / Technician: Jean Hung 測試負責人:張伯睿 / Supervisor: Ray Chang
 - 樣品拍照及報告編號 / Sample picture and report number 樣品前處理/分樣 / Sample pretreatment/separation 秤重及將樣品放入樣品槽中/ Weighting and putting sample in cell 氧氣燃燒彈/吸收 Oxygen Bomb Combustion / Absorption 稀釋至固定體積 / Dilution to fixed volume 離子層析儀分析 / Analysis was performed by IC

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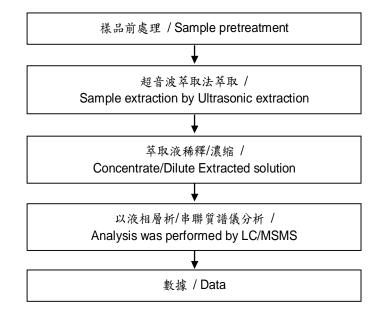
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

號碼(No.): KA/2019/B0735 日期(Date): 2019/11/19

測試人員:黃璟瓔 / Technician: Ginny Huang 測試負責人:張伯睿 / Supervisor: Ray Chang



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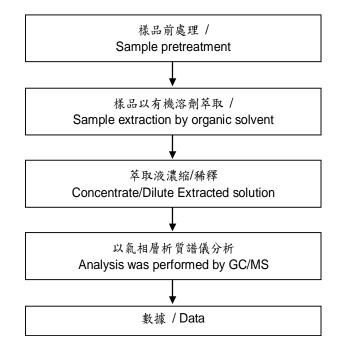
Test Report

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

測試人員: 陳威錚 / Technician: Dorothy Chen 測試負責人:張伯睿 / Supervisor: Ray Chang

號碼(No.): KA/2019/B0735 日期(Date): 2019/11/19



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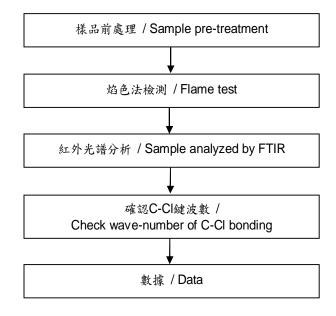
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart for determination of PVC in material

測試人員: 戴秀純 / Technician: Hannah Tai 測試負責人: 林立翔 / Supervisor: Roger Lin





Test Report

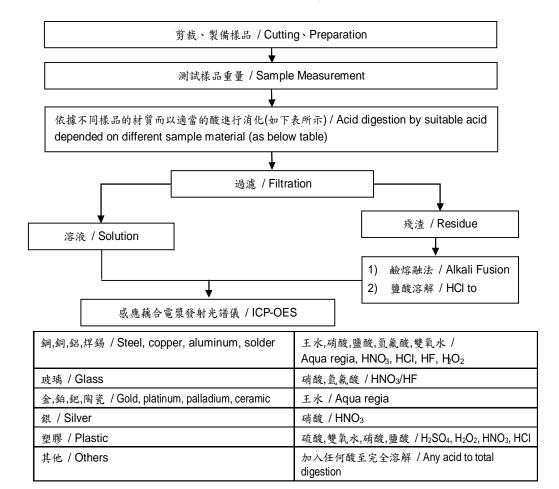
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元素以 ICP-OES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICPOES)

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





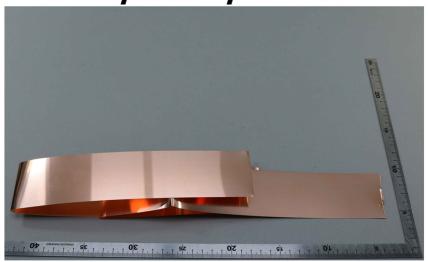
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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2019/B0735



** 報告結尾(End of Report) **