

Test Report

號碼(No.): ETR23502273 E

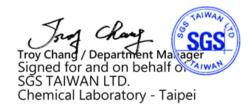
日期(Date): 22-May-2023

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笙泉科技股份有限公司 (MEGAWIN TECHNOLOGY CO., LTD.) 新竹縣竹北市台元一街8號7樓之1 (7F-1, NO. 8, TAIYUAN 1ST ST., JHUBEI CITY, HSINCHU COUNTY 30288, TAIWAN)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

樣品名稱(Sample Name)	:	PLCC SERIES
收件日(Sample Receiving Date) 測試期間(Testing Period)		15-May-2023 15-May-2023 to 22-May-2023
測試需求(Test Requested) :		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 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).)
測試結果(Test Results) :		請參閱下一頁 (Please refer to following pages.)





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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



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測試部位敘述 (Test Part Description)

No.1 : 本體 (BODY)

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

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	
(1001110110)	(method)	(onit)		No.1	No.2
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013 · 以感應耦合電漿 發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	n.d.
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013 · 以感應耦合電漿 發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	10.2
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013 + AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013 + AMD1: 2017, analysis was performed by ICP- OES.)	mg/kg	2	n.d.	n.d.
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017 · 以紫外光-可見 光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	
六價鉻 (Hexavalent Chromium) Cr(VI) (#2)	參考IEC 62321-7-1: 2015 · 以紫外光-可見 光分光光度計分析。(With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	µg/cm²	0.1		n.d.

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



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新竹縣竹北市台元一街8號7樓之1 (7F-1, NO. 8, TAIYUAN 1ST ST., JHUBEI CITY, HSINCHU COUNTY 30288, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	
(Test items)	(Method)	(Onit)		No.1	No.2
一溴聯苯 (Monobromobiphenyl)		mg/kg	5	n.d.	
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	
十溴聯苯 (Decabromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質	mg/kg	5	n.d.	
多溴聯苯總和 (Sum of PBBs)	譜儀分析。(With reference to IEC 62321- 6: 2015, analysis was performed by	mg/kg	-	n.d.	
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.	
二溴聯苯醚 (Dibromodiphenyl ether)	GC/MS.)	mg/kg	5	n.d.	
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))		mg/kg	50	n.d.	
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))	參考IEC 62321-8: 2017.以氣相層析儀/質 譜儀分析。(With reference to IEC 62321-	mg/kg	50	n.d.	
· 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))	8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	

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新竹縣竹北市台元一街8號7樓之1 (7F-1, NO. 8, TAIYUAN 1ST ST., JHUBEI CITY, HSINCHU COUNTY 30288, TAIWAN)

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. "---" = Not Conducted (未測試項目)
- 6. (#2) =

a. 當六價鉻結果大於0.13 µg/cm² · 表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).) b. 當六價鉻結果為n.d. (濃度小於0.10 µg/cm²) · 表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating) c. 當六價鉻結果介於 0.10 及 0.13 µg/cm² 時,無法確定塗層是否含有六價鉻。(The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.)

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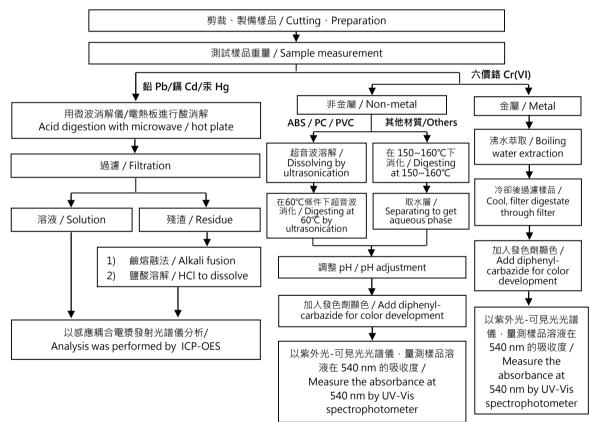
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重金屬流程圖 / Analytical flow chart of heavy metal

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.

(Cr^{6+} test method excluded)



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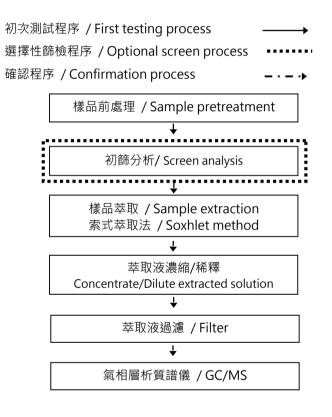
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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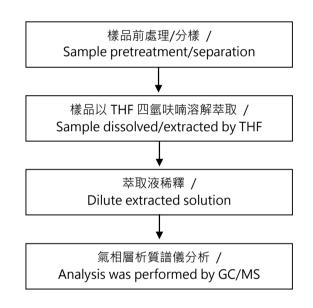
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可塑劑分析流程圖 / Analytical flow chart - Phthalate





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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.) ETR23502273 NO.1

** 報告結尾 (End of Report) **

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