

## **Test Report**

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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) LAMINATE IS680 AG 樣品型號(Style/Item No.) 收件日期(Sample Receiving Date) 2018/11/14

測試期間(Testing Period) 2018/11/14 TO 2018/11/28

**測試結果(Test Results)** : 請參閱下一頁 (Please refer to following pages).





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#### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 銅色片狀 (COPPER COLORED SHEET)

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
鹵素 / Halogen				
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	1200
鹵素(氣)/ Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	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.: 10097-32-2)	mg/kg		50	107000
鹵素(碘)/ Halogen-Iodine(I)(CAS No.: 14362-44-8)	mg/kg		50	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 (2012) ,以液相層析儀/質譜儀分析. / With reference to Global SOP RSTS-E&E- 121 (2012). Analysis was performed by LC/MS.	10	n. d.
雙酚 A / Bisphenol A (CAS No.: 80-05-7)	mg/kg	參考RSTS-CHEM-239-1 (2016),以超高 效能液相層析串聯質譜儀檢測. / With reference to RSTS-CHEM-239-1 (2016). Analysis was performed by UPLC-MSMS.	1	n. d.
總揮發性有機物質 / Total Volatile Organic Compounds (TVOC)	mg/kg	以頂空氣體進樣裝置,連接氣相層析儀/質譜儀檢測. / Analysis was performed by Headspace linked GC/MS. (測試條件 / Test Condition: 90℃, 30 mins)	1	48. 0



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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
銻 / Antimony (Sb)	mg/kg	參考US EPA 3052 (1996),以感應耦合	2	n. d.
砷 / Arsenic (As)		電漿原子發射光譜儀檢測. / With	2	n. d.
鎳 / Nickel (Ni)	mg/kg	reference to US EPA 3052 (1996).	2	4.09
磷 / Phosphorus (P)	mg/kg	Analysis was performed by ICP-AES.	2	46. 2

#### 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)



# 測試報告 **Test Report**

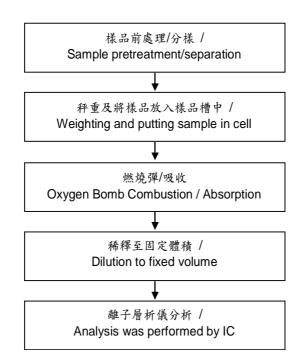
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#### 鹵素分析流程圖 / Analytical flow chart - Halogen

測試人員: 陳恩臻 / Technician: Rita Chen

測試負責人:張啟興 / Supervisor: Troy Chang





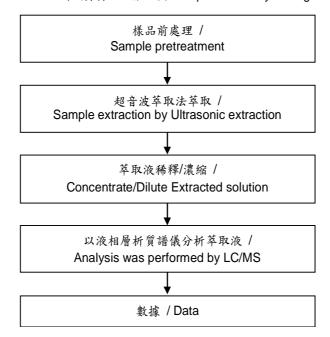
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#### 四溴雙酚-A 分析流程圖 / Analytical flow chart - TBBP-A

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang





# 測試報告 **Test Report**

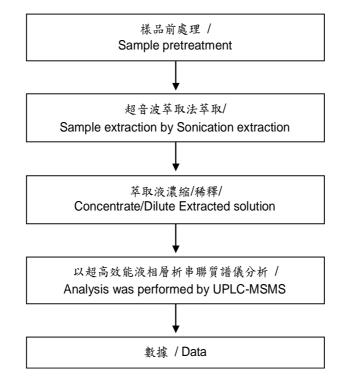
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#### 雙酚A分析流程圖 / Analytical flow chart - Bisphenol A

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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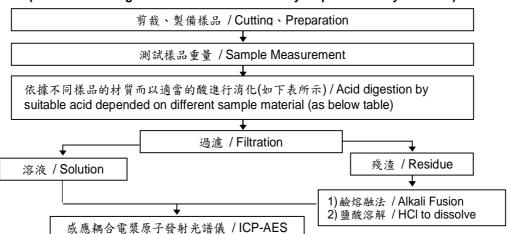
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> 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

測試人員:陳恩臻 / Technician: Rita Chen 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 <sub>3</sub> , HCI, HF, H <sub>2</sub> O <sub>2</sub>
玻璃 / Glass	硝酸,氫氟酸 / HNO <sub>3</sub> /HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO <sub>3</sub>
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , 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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\* 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.)

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\*\* 報告結尾 (End of Report) \*\*