

測試報告 Test Report^{號碼(}

號碼(No.): CV/2018/B0081

日期(Date): 2018/11/28

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ISOLA GROUP

	(The following sample(s) was/were submitted and identified by/on
behalf of the applicant as):	
樣品名稱(Sample Description) :	LAMINATE
樣品型號(Style/Item No.) :	370HR
收件日期(Sample Receiving Date) :	2018/11/14
測試期間(Testing Period) :	2018/11/14 TO 2018/11/28

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



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<u>测試結果(Test Results)</u>

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
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	n. d.
銻 / Antimony (Sb)	mg/kg	参考US EPA 3052 (1996),以感應耦合 電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
砷 / Arsenic (As)	mg/kg	参考US EPA 3052 (1996),以感應耦合 電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
鎳 / Nickel (Ni)	mg/kg	参考US EPA 3052 (1996),以感應耦合 電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	45. 5



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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
磷 / Phosphorus (P)	mg/kg	參考US EPA 3052 (1996),以感應耦合 電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	10.7
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 儀分析. / With reference to BS EN 14582 (2016). Analysis was performed by IC.	50	276
鹵素(氯)/ Halogen-Chlorine(Cl) (CAS No.: 22537-15-1)	mg/kg		50	92.3
鹵素(溴)/ Halogen-Bromine(Br) (CAS No.: 10097-32-2)	mg/kg		50	9400
鹵素(碘)/ Halogen-Iodine(I)(CAS No.: 14362-44-8)	mg/kg		50	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)

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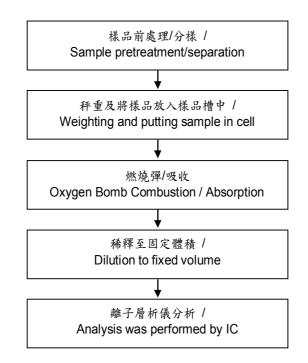
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<u> 鹵素分析流程圖 / Analytical flow chart - Halogen</u>

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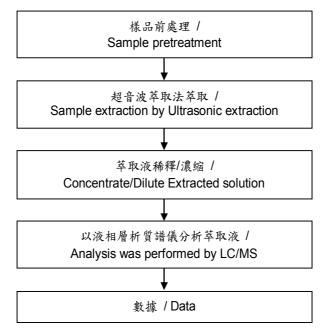
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<u>四溴雙酚-A 分析流程圖 / Analytical flow chart - TBBP-A</u>

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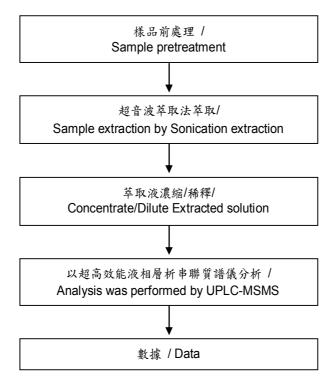
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雙酚A分析流程圖 / Analytical flow chart - Bisphenol A

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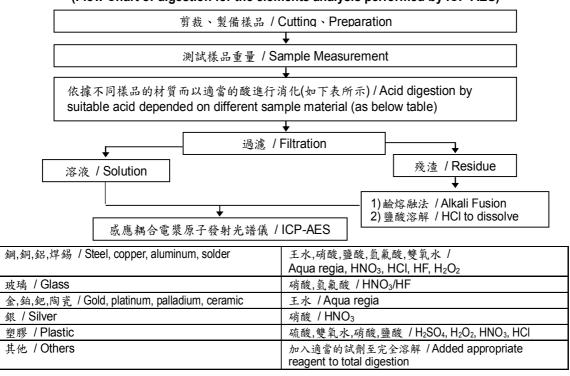
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根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

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- 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)



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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.)



** 報告結尾 (End of Report) **