



# 測試報告

# Test Report

號碼(No.): ETA21A00132

日期(Date): 25-Oct-2021

頁數(Page): 1 of 9

ISOLA GROUP

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 Name) : PREPREG  
樣品型號(Style/Item No.) : IS410

=====  
收件日(Sample Receiving Date) : 14-Oct-2021  
測試期間(Testing Period) : 14-Oct-2021 to 25-Oct-2021

測試需求(Test Requested) : 依據客戶要求進行測試。測試項目請參閱測試結果表格。(Testing item(s) is/are specified by client. Please refer to result table for testing item(s).)

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

*Troy Chang*  
Troy Chang, Manager, Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



PIN CODE: B2A4188A

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### 測試部位敘述 (Test Part Description)

No.1 : 黃色片狀 (YELLOW SHEET)

### 測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016 · 以離子層析儀分析。 (With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	1160
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	514
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	81300
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考US EPA 3550C: 2007 · 以液相層析儀/質譜儀分析。 (With reference to US EPA 3550C: 2007, analysis was performed by LC/MS.)	mg/kg	10	n.d.
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	10	n.d.
四溴雙酚-A (TBBP-A) (Tetrabromobisphenol A (TBBP-A)) (CAS No.: 79-94-7)	參考RSTS-E&E-121 · 以液相層析儀/質譜儀分析。 (With reference to RSTS-E&E-121, analysis was performed by LC/MS.)	mg/kg	10	n.d.
雙酚A (Bisphenol A) (CAS No.: 80-05-7)	參考RSTS-CHEM-239-1 · 以液相層析串聯質譜儀分析。 (With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS.)	mg/kg	1	9.84
錫 (Sn) (Tin (Sn)) (CAS No.: 7440-31-5)	參考US EPA 3052: 1996 · 以感應耦合電漿發射光譜儀分析。 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)		mg/kg	2	n.d.
磷 (P) (Phosphorus (P)) (CAS No.: 7723-14-0)		mg/kg	2	56.3
鎳 (Ni) (Nickel (Ni)) (CAS No.: 7440-02-0)		mg/kg	2	3.60
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)		mg/kg	2	n.d.
砷 (As) (Arsenic (As)) (CAS No.: 7440-38-2)		mg/kg	2	n.d.

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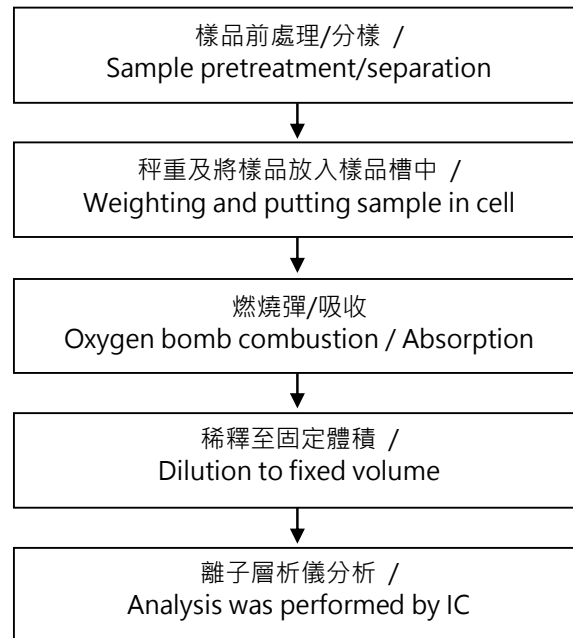
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### 備註(Note) :

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) ; 小於MDL / Less than MDL
4. 全氟辛烷磺酸及其鹽類包含 (PFOS and its salts including) :  
CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
5. 全氟辛酸及其鹽類包含 (PFOA and its salts including) :  
CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.

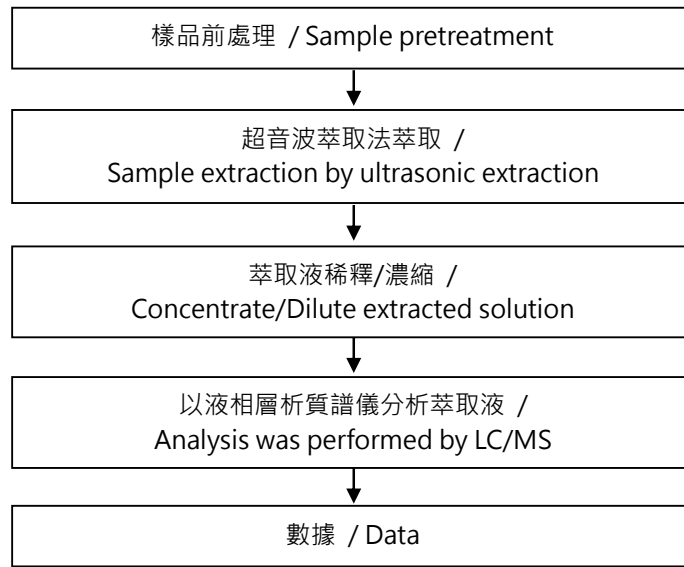
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### 鹵素分析流程圖 / Analytical flow chart - Halogen



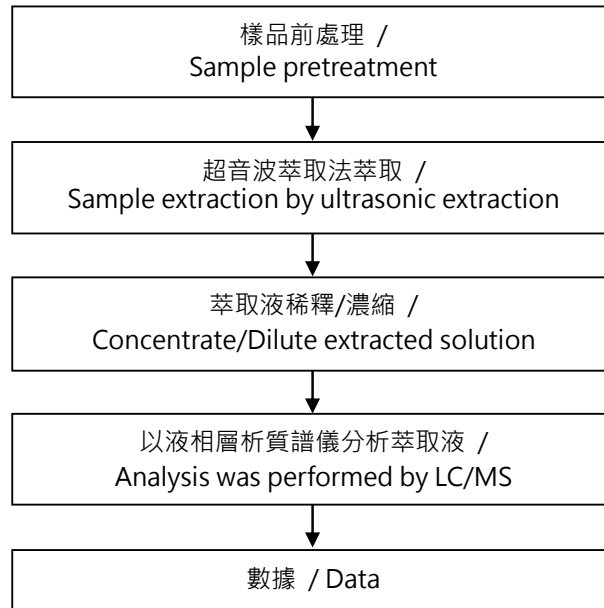
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS



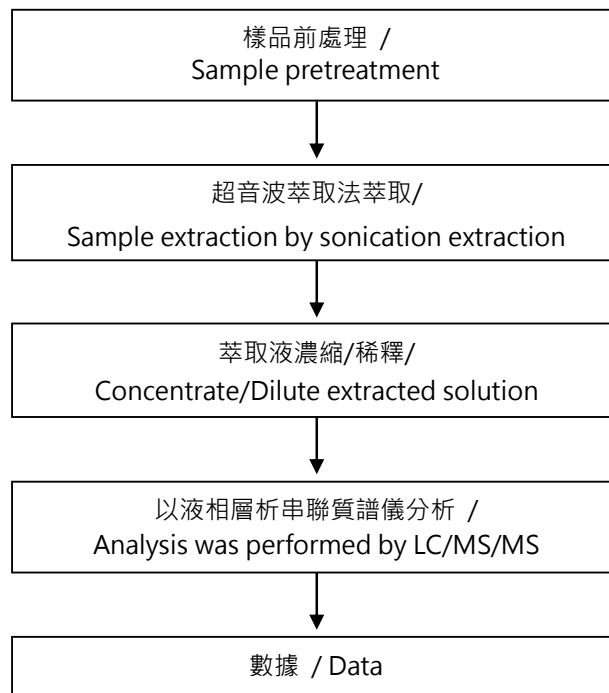
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## 四溴雙酚-A 分析流程圖 / Analytical flow chart - TBBP-A



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



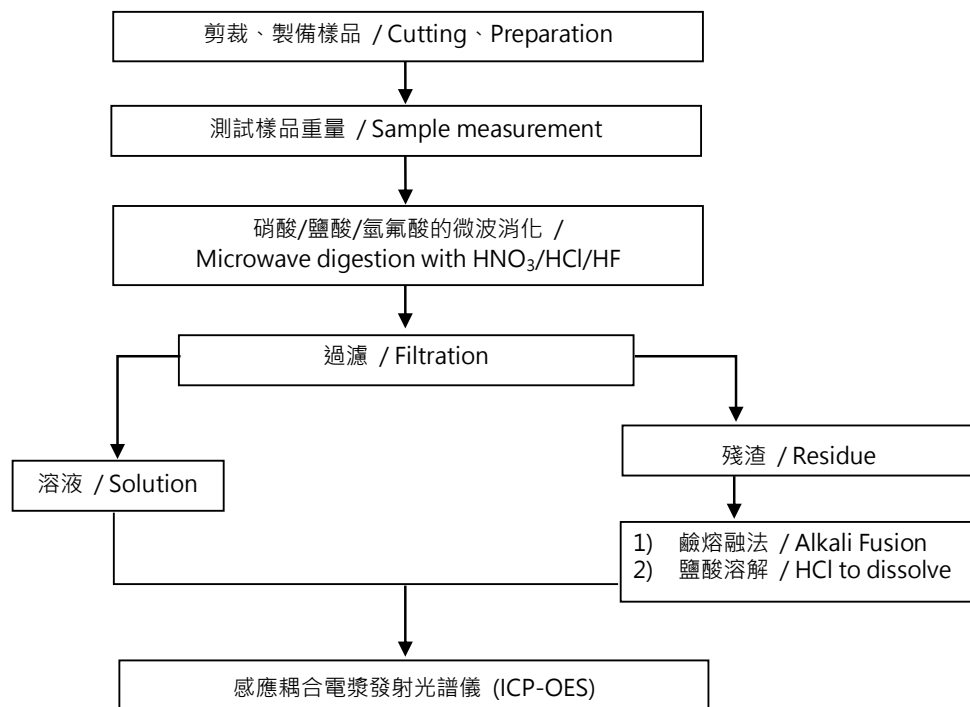
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### 元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

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.

【參考方法/Reference method：US EPA 3051A、US EPA 3052】



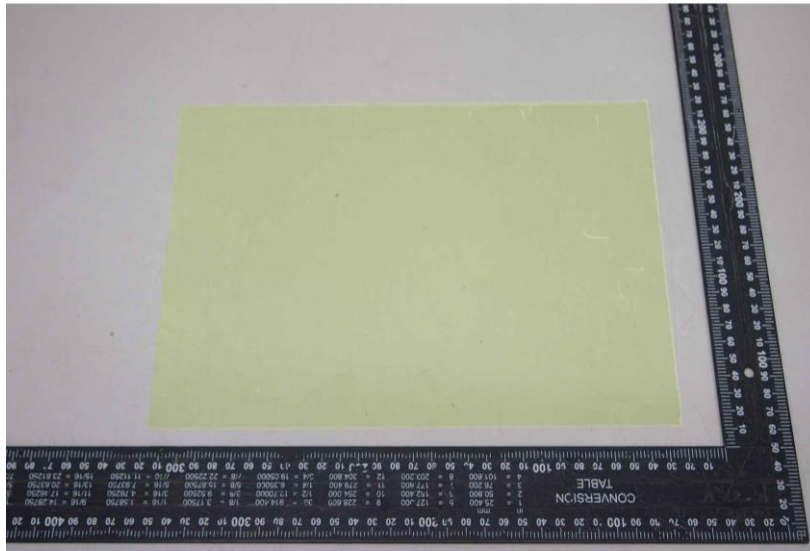
\* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.



\* 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.)

### ETA21A00132



\*\* 報告結尾 (End of Report) \*\*

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