

Report No. 報告號碼: 48281811b23 001

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Client 客戶: ISOLA GROUP

Test item(s) 測試樣品: Prepreg

Identification/Model No(s): DE104

樣品描述/規格:

Sample obtaining method: Sending by customer
樣品獲取方式:

Condition at delivery: Test item complete and undamaged.
樣品接收狀態:

Sample receiving date: 2025-09-22
收樣日期:

Testing period: 2025-09-22 – 2025-10-13
測試週期:

Place of testing: Chemical laboratory Hong Kong
測試地點:

Test specification 測試要求:

Testing according to customer's specification for the following parameters:

Halogen/鹵素 (Fluorine/氟, Chlorine/氯, Bromine/溴, Iodine/碘), Perfluorooctane Sulfonate (PFOS)/全氟辛烷磺酸, Perfluorooctanoic Acid (PFOA)/全氟辛酸, Bisphenol-A (BPA)/雙酚-A, Arsenic (As)/砷, Antimony (Sb)/銻, Beryllium (Be)/鈹, Nickel (Ni)/鎳, Tin (Sn)/錫, Phosphorus (P)/磷

Test result 測試結果:

Refer to result page
參照測試報告

For and on behalf of
TÜV Rheinland Hong Kong Ltd.



2025-10-16
Date 日期

Amenda Yung / Senior CS Manager
Name/Position 姓名/職位

**Report Authenticity Verification, please email: softlines@tw.tuv.com.
報告真實性確認, 如需驗證, 請電郵至 softlines@tw.tuv.com。**

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.
樣品信息由客戶提供。測試結果根據所做測試的種類和範圍而得出。本測試報告僅對來樣負責。未經本測試中心許可, 測試報告不得部分複製。
不能根據此報告在上述產品或類似產品上使用任何安全標誌。本測試報告中, 描述符合性聲明所應用的判定規則發佈在我司官網
<https://www.tuv.com/landingpage/en/qm-gcn/>。



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Page 2 of 6**Tested Material list/測試材料清單**

Item: DE104

Material No./ 材料編號	Material/材質	Color/顏色	Location/位置
1	Composite material/複合材料	Yellow/黃色	TCL250922-23

Test Sample/測試樣品

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Test Result 測試結果

				Mat.1
Test Item/測試項目	Test Method/ 測試方法	Unit / 單位	MDL	Result/ 結果
Halogen / 鹵素				
Fluorine (F) / 氟	With ref. to EN 14582:2016, IC/ 參考 EN 14582:2016, 離子層析儀	mg/kg	50	499
Chlorine (Cl) / 氯		mg/kg	50	383
Bromine (Br) / 溴		mg/kg	50	63573
Iodine (I) / 碘		mg/kg	50	n.d.
Perfluorooctane Sulfonate (PFOS) and its salts/全氟辛烷磺酸及其鹽類*	With ref. to EN 17681- 1:2025, CI-GCMS / GC- MSMS and LC-MSMS / 參考 EN 17681-1:2025, 化學離子化氣相色譜-質 譜儀 / 氣相層析串聯質譜 儀 / 液相層析/質譜儀分析	mg/kg	0.01	n.d.
Perfluorooctanoic Acid (PFOA) and its salts/全氟辛酸及其鹽類**		mg/kg	0.01	n.d.
Bisphenol-A (BPA)/雙酚-A	Organic solvent extraction, LC-MS/MS/ 有機溶劑萃取,液相層析 串聯質譜儀	mg/kg	0.1	1.4
Arsenic (As)/砷	With ref. to US EPA 3052:1996, ICP-OES/參考 US EPA 3052: 1996, 感應耦合電 漿發射光譜儀	mg/kg	2	n.d.
Antimony (Sb)/銻		mg/kg	2	n.d.
Beryllium (Be)/鈹		mg/kg	2	n.d.
Nickel (Ni)/鎳		mg/kg	2	n.d.
Tin (Sn)/錫		mg/kg	2	n.d.
Phosphorus (P)/磷		mg/kg	2	205

Notes/ 註釋:

MDL = Method Detection Limit/方法偵測極限值

n.d. = Not Detected/未檢出; Less than MDL/小於 MDL

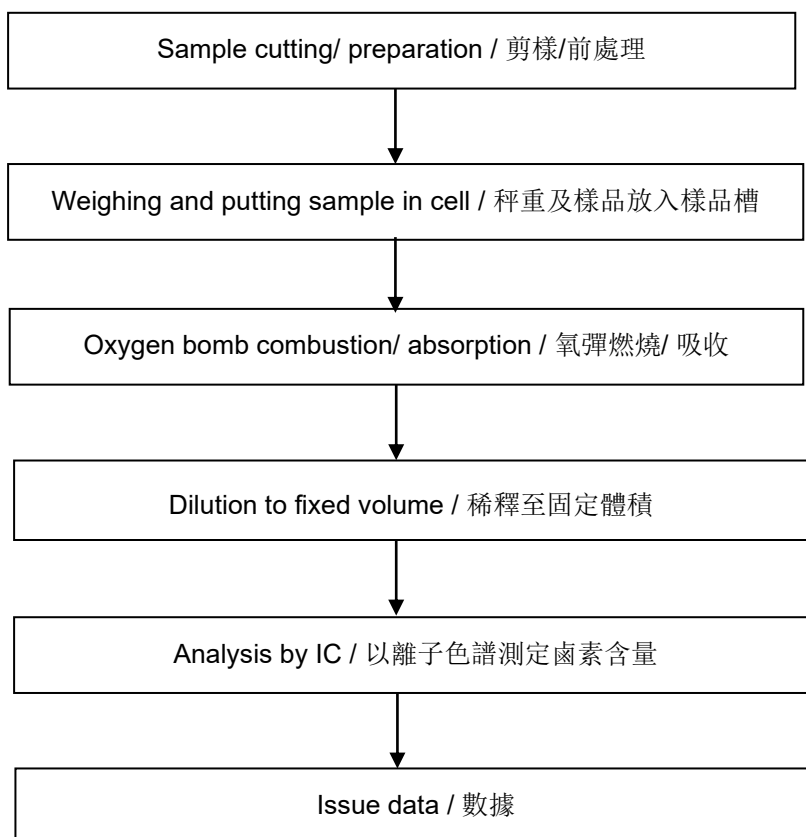
mg/kg = milligram per kilogram/ 毫克每公斤

* PFOS and its salts including: CAS no. 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0.

** PFOA and its salts including: CAS no. 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1, 17125-58-5.

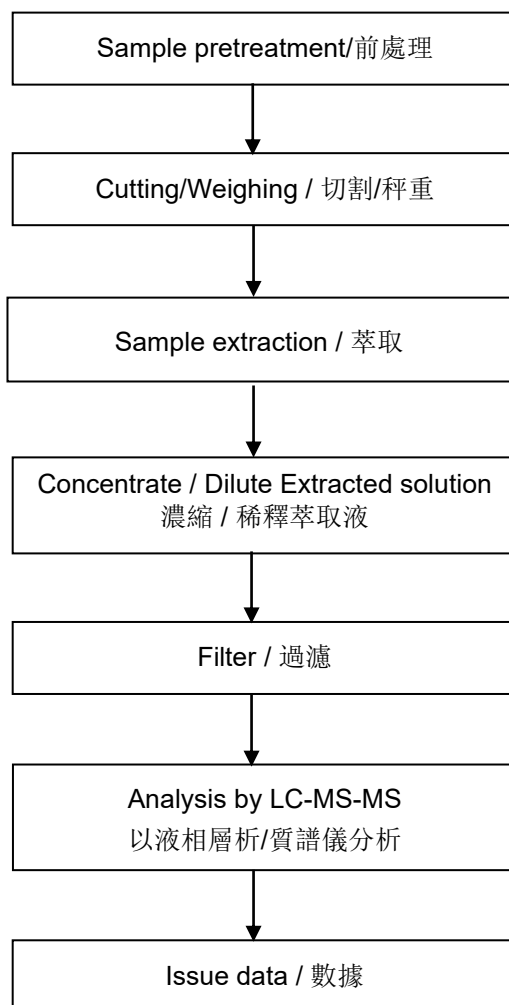
Testing procedure / 測試流程圖:

Halogen/鹵素



Testing procedure / 測試流程圖 :

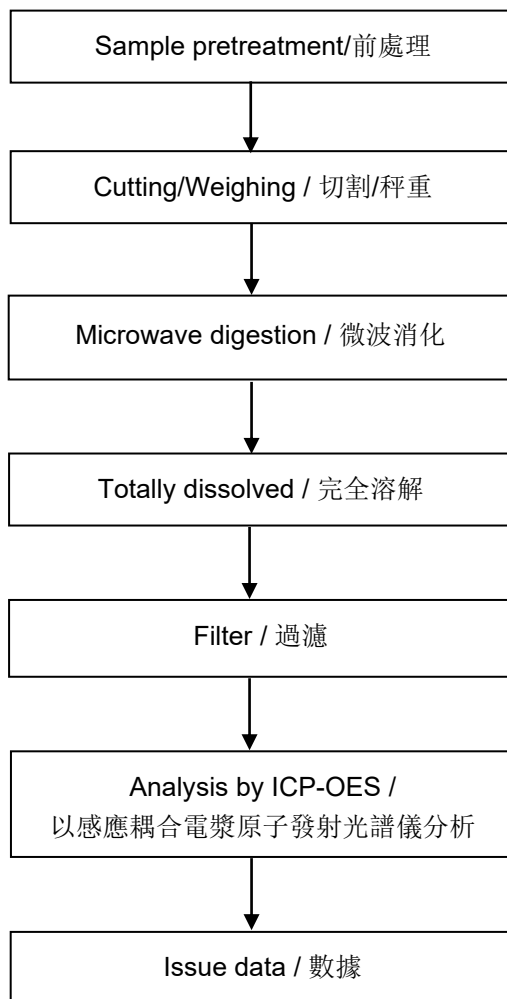
PFOS/全氟辛烷磺酸, PFOA/全氟辛酸 ; BPA/雙酚-A



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Page 6 of 6**Testing procedure / 測試流程圖:**

As/砷, Sb/銻, Be/鈹, Ni/鎳, Sn/錫, P/磷



--- End of Test-Report / 此報告結束----