TÜVRheinland®
Precisely Right.



| | |
|---|---|
| ***Report No. 報告號碼:*** | 48309544a33 001 |
| ***Client 客戶:*** | ISOLA GROUP |
| ***Test item(s) 測試樣品:*** | Prepreg |
| ***Identification/Model No(s): 樣品描述/規格:*** | I-Speed |
| ***Sample obtaining method: 樣品獲取方式:*** | Sending by customer |
| ***Condition at delivery: 樣品接收狀態:*** | Test item complete and undamaged. |
| ***Sample receiving date: 收樣日期:*** | 2026-09-22 |
| ***Testing period: 測試週期:*** | 2026-09-22 – 2026-10-12 |
| ***Place of testing: 測試地點:*** | Chemical laboratory Hong Kong |

| ***Test specification 測試要求:*** | ***Test result 測試結果:*** |
|---|---|
| Testing according to customer's specification for the following parameters: | |
| RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment Directive (EU) 2015/863: Total Content of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers; and Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP) / 依據電機電子設備限用有害物質指令(RoHS 2011/65/EU) 附錄II及其修正指令(EU) 2015/863: 鉛、鎘、汞、六價鉻、多溴聯苯、多溴二苯醚、鄰苯二甲酸苯基丁酯、鄰苯二甲酸二丁酯、鄰苯二甲酸二(2-乙基己基)酯、鄰苯二甲酸二異丁酯 之總含量 | Pass/合格 |
| Phthalates/鄰苯二甲酸酯(DIDP,DINP,DNOP), Hexabromocyclododecane (HBCDD)/六溴環十二烷, Tetrabromobisphenol A (TBBPA)/四溴雙酚A, Medium Chain Chlorinated Paraffins (MCCP)/中鏈氯化石蠟 | Refer to result page *參照測試報告* |

**For and on behalf of**
**TÜV Rheinland Hong Kong Ltd.**

2026-10-15
Date *日期*

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

TÜV RHEINLAND HONG KONG LTD.

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

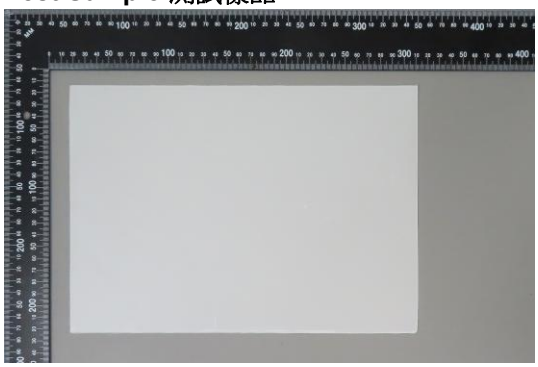
*Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.*
*This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts.*
*This test report does not entitle to carry any safety mark on this or similar products.*
*"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/。*

**Tested Material list/測試材料清單**

Item: I-Speed

| Material No./ 材料編號 | Material/材質 | Color/顏色 | Location/位置 |
|---|---|---|---|
| 1 | Composite material/複合材料 | White/白色 | TCL260922-33 |

**Test Sample/測試樣品**



Test Result 測試結果

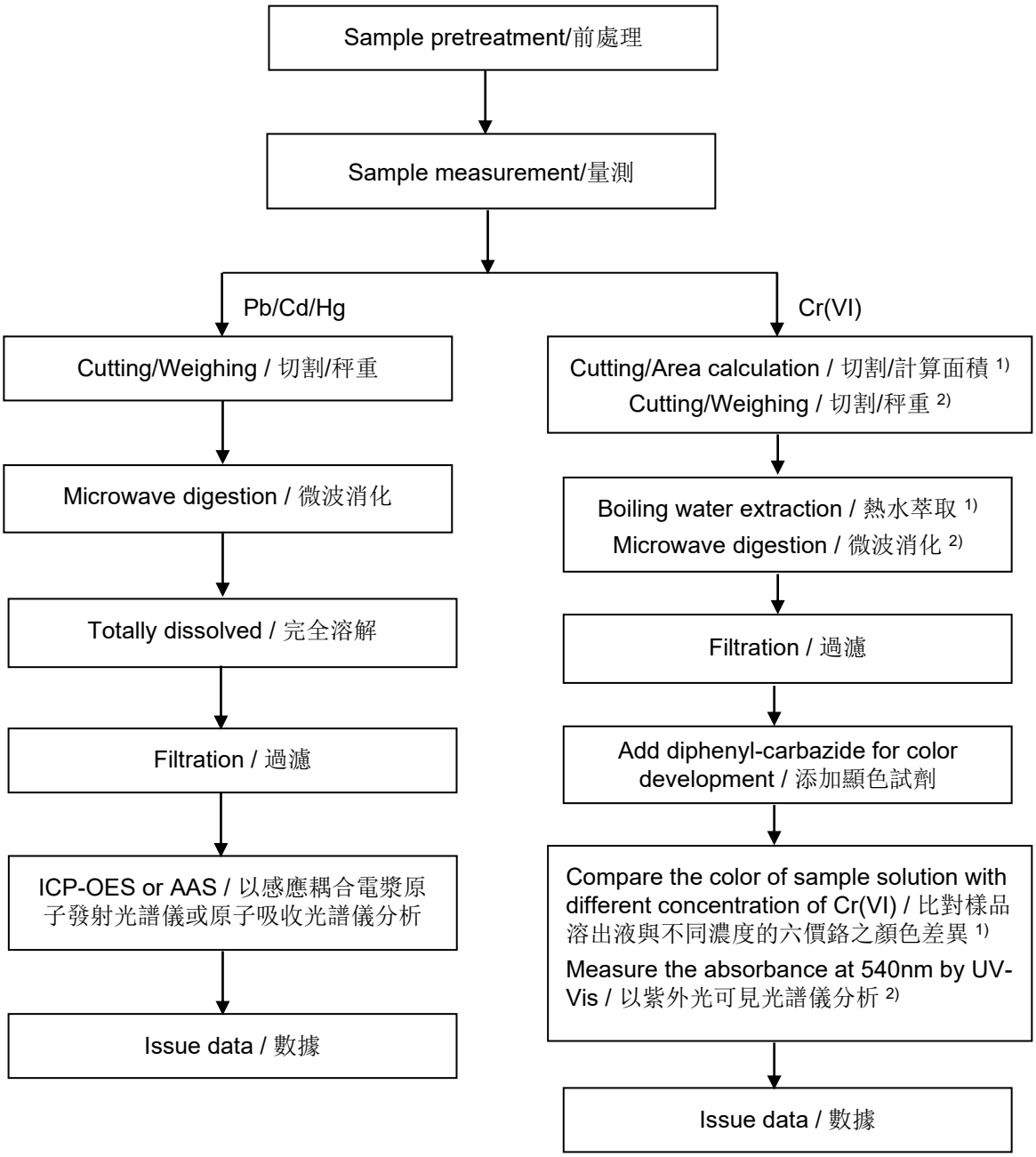
| Test Item/測試項目 | Test Method/ 測試方法 | Unit / 單位 | MDL | Mat.1 Result/ 結果 | Limit/限值 |
|---|---|---|---|---|---|
| Cadmium (Cd) / 鎘 | With ref. to IEC 62321-5:2013, ICP-OES/參考 IEC 62321-5: 2013,感應耦合電漿發射光譜儀 | mg/kg | 2 | n.d. | 100 |
| Lead (Pb) / 鉛 | With ref. to IEC 62321-5:2013, ICP-OES/參考 IEC 62321-5: 2013,感應耦合電漿發射光譜儀 | mg/kg | 2 | n.d. | 1000 |
| Mercury (Hg) / 汞 | With ref. to IEC 62321-4: 2013+ AMD1:2017, AAS/ 參考 IEC 62321-4: 2013+ AMD1: 2017, 原子吸收光譜儀 | mg/kg | 2 | n.d. | 1000 |
| Chromium VI (Cr VI) / 六價鉻 | With ref. to IEC 62321-7-2:2017, UV-VIS/參考 IEC 62321-7-2: 2017,紫外光-可見光分光光度計 | mg/kg | 8 | n.d. | 1000 |
| **Sum of Polybrominated biphenyls (PBBs)** / 多溴聯苯總和 | With ref. to IEC 62321-6:2015, GC-MS/參考 IEC 62321-6: 2015,氣相層析儀-質譜儀 | mg/kg | - | n.d. | 1000 |
| Monobromobiphenyl/一溴聯苯 | | mg/kg | 5 | n.d. | - |
| Dibromobiphenyl/二溴聯苯 | | mg/kg | 5 | n.d. | - |
| Tribromobiphenyl/三溴聯苯 | | mg/kg | 5 | n.d. | - |
| Tetrabromobiphenyl/四溴聯苯 | | mg/kg | 5 | n.d. | - |
| Pentabromobiphenyl/五溴聯苯 | | mg/kg | 5 | n.d. | - |
| Hexabromobiphenyl/六溴聯苯 | | mg/kg | 5 | n.d. | - |
| Heptabromobiphenly/七溴聯苯 | | mg/kg | 5 | n.d. | - |
| Octabromobiphenyl/八溴聯苯 | | mg/kg | 5 | n.d. | - |
| Nonabromobiphenyl/九溴聯苯 | | mg/kg | 5 | n.d. | - |
| Decabromobiphenyl/十溴聯苯 | | mg/kg | 5 | n.d. | - |
| **Sum of Polybrominated diphenyl ethers (PBDEs)** / 多溴二苯醚總和 | | mg/kg | - | n.d. | 1000 |
| Monobromodiphenyl ether/一溴二苯醚 | | mg/kg | 5 | n.d. | - |
| Dibromodiphenyl ether/二溴二苯醚 | | mg/kg | 5 | n.d. | - |
| Tribromodiphenyl ether/三溴二苯醚 | | mg/kg | 5 | n.d. | - |
| Tetrabromodiphenyl ether/四溴二苯醚 | | mg/kg | 5 | n.d. | - |
| Pentabromodiphenyl ether/五溴二苯醚 | | mg/kg | 5 | n.d. | - |
| Hexabromodiphenyl ether/六溴二苯醚 | | mg/kg | 5 | n.d. | - |
| Heptabromodiphenyl ether/七溴二苯醚 | | mg/kg | 5 | n.d. | - |
| Octabromodiphenyl ether/八溴二苯醚 | | mg/kg | 5 | n.d. | - |
| Nonabromodiphenyl ether/九溴二苯醚 | | mg/kg | 5 | n.d. | - |
| Decabromodiphenyl ether/十溴二苯醚 | | mg/kg | 5 | n.d. | - |

| Test Item/測試項目 | Test Method/ 測試方法 | Unit / 單位 | MDL | Mat.1 Result/ 結果 | Limit/限值 |
|---|---|---|---|---|---|
| Benzyl butyl phthalate (BBP)/ 鄰苯二甲酸苯基丁酯 | With ref. to IEC 62321-8:2017, GC-MS/ 參考 IEC 62321-8: 2017, 氣相層析儀-質譜儀 | mg/kg | 50 | n.d. | 1000 |
| Dibutyl phthalate (DBP)/ 鄰苯二甲酸二丁酯 | | mg/kg | 50 | n.d. | 1000 |
| Diethylhexyl phthalate (DEHP)/ 鄰苯二甲酸二(2-乙基己基)酯 | | mg/kg | 50 | n.d. | 1000 |
| Diisobutyl phthalate (DIBP)/ 鄰苯二甲酸二異丁酯 | | mg/kg | 50 | n.d. | 1000 |
| Diisodecyl phthalate (DIDP)/ 鄰苯二甲酸二異癸酯 | | mg/kg | 50 | n.d. | - |
| Diisononyl phthalate (DINP)/ 鄰苯二甲酸二異壬酯 | | mg/kg | 50 | n.d. | - |
| Di-n-octyl phthalate (DNOP)/ 鄰苯二甲酸二辛酯 | | mg/kg | 50 | n.d. | - |
| Hexabromocyclododecane (HBCDD)/六溴環十二烷 | With ref. to IEC 62321-9:2021, GC-MS/ 參考 IEC 62321-9: 2021, 氣相層析儀-質譜儀 | mg/kg | 20 | n.d. | - |
| Tetrabromobisphenol A (TBBPA)/ 四溴雙酚 A | Organic solvent extraction, LC-MS/ 有機溶劑萃取, 液相層析儀-質譜儀 | mg/kg | 5 | 35900 | - |
| Medium Chain Chlorinated Paraffins (C14-C17) (MCCP)/ 中鏈氯化石蠟 | With ref. to ISO 18219-2:2021, GC-MS/ 參考 18219-2:2021, 氣相層析儀-質譜儀 | mg/kg | 50 | n.d. | - |

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

**Testing procedure / 測試流程圖 :**

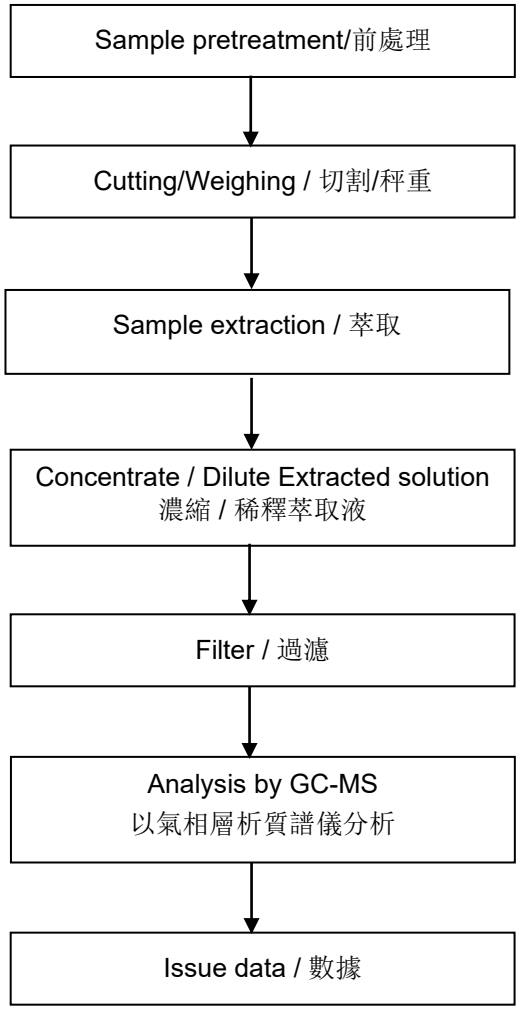
RoHS (Pb/鉛, Cd/鎘, Hg/汞, Cr(VI)/六價鉻)




Notes/註釋: 1) For metallic material / 用於金屬物質
2) For non-metallic material / 用於非金屬物質

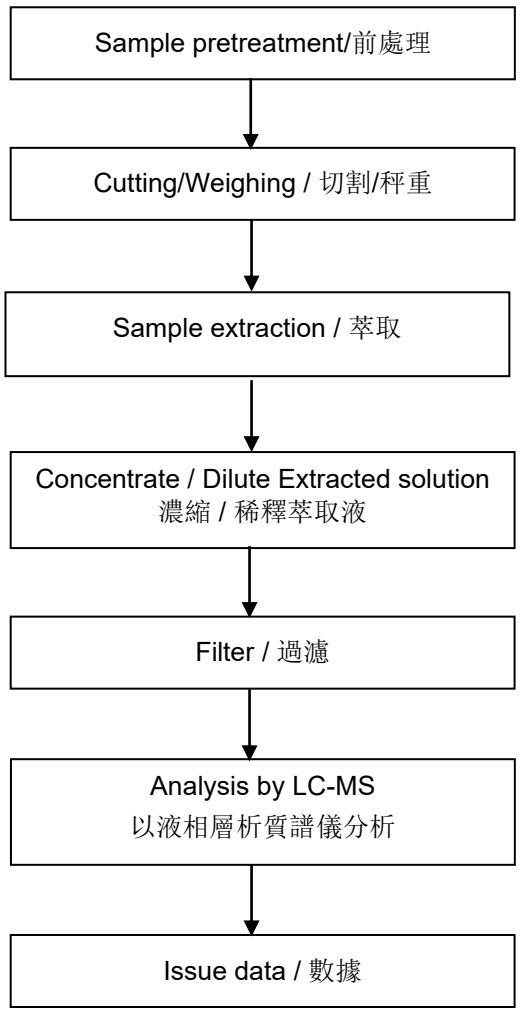
**Testing procedure / 測試流程圖 :**

RoHS (PBBs/多溴聯苯, PBDEs/多溴二苯醚, BBP/鄰苯二甲酸苯基丁酯, DBP/鄰苯二甲酸二丁酯, DEHP/鄰苯二甲酸二(2-乙基已基)酯, DIBP/鄰苯二甲酸二異丁酯); Phthalates/鄰苯二甲酸酯, HBCDD/六溴環十二烷; MCCP/中鏈氯化石蠟



**Testing procedure / 測試流程圖 :**

TBBP-A/四溴雙酚-A




--- End of Test-Report / 此報告結束---