# 測試報告
# Test Report

號碼(No.): ETR25105283　　日期(Date): 03-Feb-2025　　

崑仲股份有限公司 (KIN JOIN CO., LTD.)
台中市大里區仁化路166號 (NO. 166, RENHUA RD., DALI DIST., TAICHUNG CITY 412, TAIWAN)

**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 the applicant as)：**

送樣廠商(Sample Submitted By) : 崑仲股份有限公司 (KIN JOIN CO., LTD.)
樣品名稱(Sample Name) : THERMOPLASTIC POLYURETHANE(TPU) (熱可塑性聚氨酯)

==========

收件日(Sample Receiving Date) : 20-Jan-2025
測試期間(Testing Period) : 20-Jan-2025 to 03-Feb-2025

**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 / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

CHECK REPORT
PIN CODE: B5168C9E

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

# 測試報告
# Test Report



崑仲股份有限公司 (KIN JOIN CO., LTD.)
台中市大里區仁化路166號 (NO. 166, RENHUA RD., DALI DIST., TAICHUNG CITY 412, TAIWAN)

**測試部位敘述 (Test Part Description)**

No.1 : 透明塑膠粒 (THERMOPLASTIC POLYURETHANE(TPU) (熱可塑性聚氨酯))

**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 |
| 三苯基錫 (TPT) (Triphenyl tin (TPT)) | 參考ISO 17353: 2004，以氣相層析儀/火焰光度偵測器分析。(With reference to ISO 17353: 2004, analysis was performed by GC/FPD.) | mg/kg | 0.03 | n.d. |
| 三丁基錫 (TBT) (Tributyl tin (TBT)) | | mg/kg | 0.03 | n.d. |
| 二辛基錫 (DOT) (Dioctyl tin (DOT)) | | mg/kg | 0.03 | n.d. |
| 二丁基錫 (DBT) (Dibutyl tin (DBT)) | | mg/kg | 0.03 | n.d. |
| 氧化雙三丁基錫 (TBTO) (Bis(tributyltin) oxide (TBTO)) (CAS No.: 56-35-9) | 由三丁基錫測試結果計算得之。(Calculated from the result of Tributyl Tin (TBT).) | mg/kg | 0.03▲ | n.d. |

**備註(Note)：**

1. mg/kg = ppm；0.1wt% = 0.1% = 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. ▲：MDL是針對元素/測試化合物之評估。(The MDL was evaluated for element / tested substance.)

換算公式 (Conversion Formula)：AX = A × F

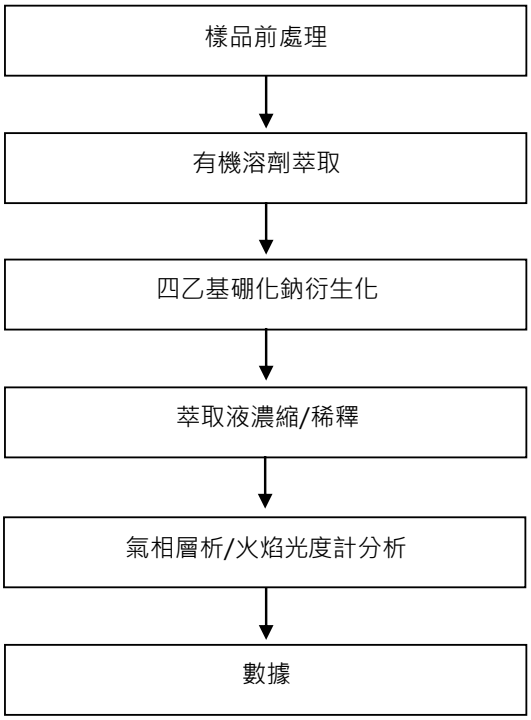
| AX | A | F |
|---|---|---|
| 氧化雙三丁基錫 (Bis(tributyltin)oxide) (TBTO) | 三丁基錫 (Tributyl Tin) (TBT) | 1.0276 |

參數換算表 (Parameter Conversion Table)：
https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

崑仲股份有限公司 (KIN JOIN CO., LTD.)
台中市大里區仁化路166號 (NO. 166, RENHUA RD., DALI DIST., TAICHUNG CITY 412, TAIWAN)


**有機錫分析流程圖**





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

# 測試報告
# Test Report

號碼(No.): ETR25105283　　日期(Date): 03-Feb-2025　　

崑仲股份有限公司 (KIN JOIN CO., LTD.)
台中市大里區仁化路166號 (NO. 166, RENHUA RD., DALI DIST., TAICHUNG CITY 412, TAIWAN)

*** 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.)**

**ETR25105283**




** 報告結尾 (End of Report) **

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.