



## 測試報告

# Test Report

號碼(No.): ETR24800595

日期(Date): 12-Aug-2024

頁數(Page): 1 of 6

乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1, LN46 SEC.1 REN 5TH RD., WUJIE TONSHIP YILAN COUNTY 268, 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) : 乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

樣品名稱(Sample Name) : PVC BOOT (PVC護套)

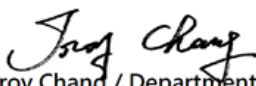
收件日(Sample Receiving Date) : 02-Aug-2024

測試期間(Testing Period) : 02-Aug-2024 to 09-Aug-2024

測試需求(Test Requested) : 依據客戶要求，參考美國毒管法(TSCA) 第6章節及聯邦規則彙編40 CFR Part 751，進行5項持久性生物累積毒性物質(PBTs)以及二氯甲烷測試，測試項目請參閱測試結果表格。(As specified by client, the sample(s) was/ were tested for 5 PBTs and methylene chloride with reference to TSCA section 6 and 40 CFR Part 751. 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.)

結論(Conclusion) : 根據客戶所提供的樣品，其測試結果符合美國毒管法(TSCA)第6章節及聯邦規則彙編40 CFR Part 751中對持久性生物累積毒性物質(PBTs)及二氯甲烷之限值要求。(Based on the performed tests on submitted sample(s), the test result(s) of PBTs and methylene chloride comply with the limits as set by TSCA section 6 and 40 CFR Part 751.)

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



PIN CODE: 454D0417

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.): ETR24800595

日期(Date): 12-Aug-2024

頁數(Page): 2 of 6

乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1, LN46 SEC.1 REN 5TH RD., WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

## 測試部位敘述 (Test Part Description)

No.1 : 藍色塑膠 (BLUE PLASTIC)

## 測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
十溴聯苯醚 (DecaBDE) (Decabromodiphenyl ether (DecaBDE)) (CAS No.: 1163-19-5)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	n.d.	Prohibited / N/A(*3)
異丙基化磷酸三苯酯 (PIP 3:1) (Phenol, isopropylated, phosphate (3:1) (PIP 3:1)) (CAS No.: 68937-41-7)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	n.d.	Prohibited / N/A(*1)
2,4,6-三叔丁基酚 (2,4,6-TTBP) (2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)) (CAS No.: 732-26-3)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	n.d.	3000 / N/A(*2)
五氯苯硫酚 (PCTP) (Pentachlorothiophenol (PCTP)) (CAS No.: 133-49-3)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	n.d.	10000
六氯丁二烯 (HCBD) (Hexachlorobutadiene (HCBD)) (CAS No.: 87-68-3)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	n.d.	Prohibited
二氯甲烷 (Methylene Chloride) (CAS No.: 75-09-2)	參考US EPA 5021A: 2014 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.)	mg/kg	1	n.d.	1000 / N/A(*4)

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.): ETR24800595

日期(Date): 12-Aug-2024

頁數(Page): 3 of 6

乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1, LN46 SEC.1 REN 5TH RD., WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

### 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. 除非另有說明，參照ILAC-G8:09/2019，採用簡單二元(w=0)允收規則進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)
5. 詳細法規說明請點以下網址連結。(Detail explanation of the regulation is available at the following link.)  
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-R/part-751?toc=1>
6. N/A(\*1) : 若產品/成品為以下，則不適用 (The submitted sample is exempted from the regulated scope if it is anyone of the following) :
  - 航空或軍用液壓油 (Hydraulic fluids for aviation or military)
  - 潤滑劑和油脂 (Lubricants and grease)
  - 汽車和航空航天器的新零件和替換零件 (New and replacement parts for motor and aerospace vehicles)
  - 在封閉系統中製造氰基丙烯酸酯粘合劑 (Manufacture of cyanoacrylate adhesives in closed systems)
  - 火車和船舶應用的專用發動機空氣濾清器 (Specialized engine air filters for locomotive and marine applications)
  - 從含PIP(3:1)的產品或成品中回收的塑料 (Plastic for recycling from PIP (3:1)-containing products or articles)
  - 從包含PIP(3:1)的產品或成品中回收的塑料製成的成品或成品 (Finished products or articles made of plastic recycled from PIP (3:1)-containing products or articles)
  - 於2024/10/31前加工和分銷含PIP(3:1)的成品 (Processing and distribution in commerce of PIP (3:1)-containing articles, before October 31, 2024)
7. N/A(\*2) : 若產品為非作為潤滑油中添加劑，則不適用。(The submitted sample is exempted from the regulated scope if it is not oil and lubricant additives.)
8. N/A(\*3) : 若產品/成品為以下，則不適用 (The submitted sample is exempted from the regulated scope if it is anyone of the following) :  
從產品或成品進行加工和分銷含十溴二苯醚回收的塑料或者由這種再生塑料製成的含十溴二苯醚的產品或成品。(Exempts processing and distribution for recycling of DecaBDE-containing plastic from products or articles and DecaBDE-containing products or articles made from such recycled plastic.)
9. N/A(\*4) : 此限值僅適用於消費性塗料去除劑以外的化學品或混合物，不適用於成品。(The limit only applies to chemical or mixture other than consumer paint and coating removal, not applies to article.)

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.): ETR24800595

日期(Date): 12-Aug-2024

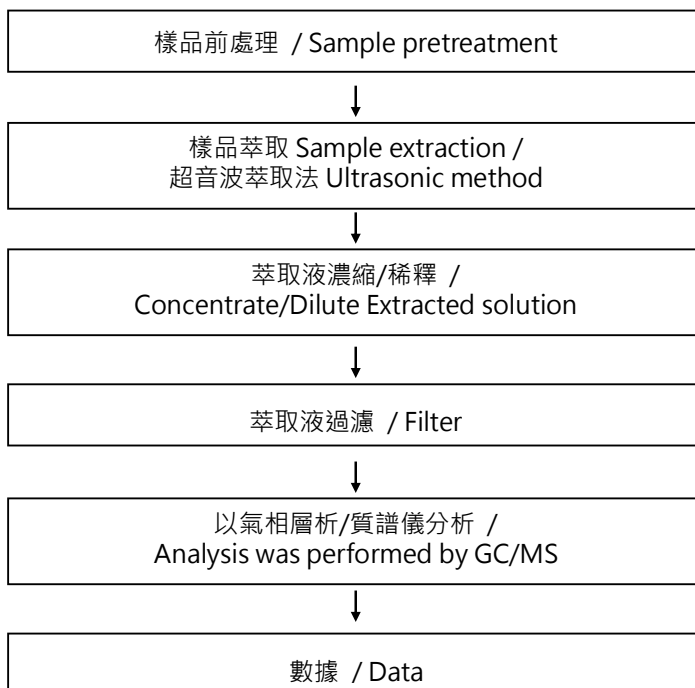
頁數(Page): 4 of 6

乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1, LN46 SEC.1 REN 5TH RD., WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

### 持久性生物累積毒性物質 (PBTs) 分析流程圖 /

### Analytical flow chart - Persistent, Bioaccumulative, Toxic (PBTs)



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.): ETR24800595

日期(Date): 12-Aug-2024

頁數(Page): 5 of 6

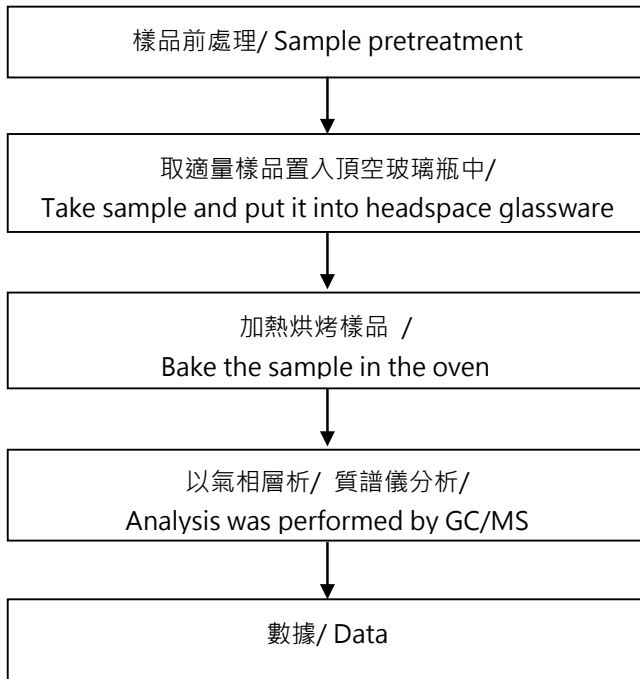
乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1, LN46 SEC.1 REN 5TH RD., WUJIE TONSHIP YILAN COUNTY 268, TAIWAN)

### 揮發性有機化合物分析流程圖/

### Analytical flow chart of volatile organic compounds (VOCs)

【參考方法/ Reference method : US EPA 5021A】



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.): ETR24800595

日期(Date): 12-Aug-2024

頁數(Page): 6 of 6

乾羅科技股份有限公司 (PLUG MASTER INDUSTRIAL CO., LTD.)

宜蘭縣五結鄉仁五路一段46巷1號 (NO.1, LN46 SEC.1 REN 5TH RD., WUJIE TONSHIP YILAN COUNTY 268, 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.)

### ETR24800595



\*\* 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.