

## 試驗報告

台灣塑膠工業股份有限公司

台北市敦化北路201號8樓

報告號碼：KE/2019/C0704A-01

報告發行日期：2019/12/19

頁數：第 1 頁, 共 5 頁

以下測試樣品係由客戶送樣, 且由客戶聲稱並經客戶確認如下:

樣品名稱 : 台塑鋼.  
樣品顏色 : 本色.  
樣品型號 : FM090.  
樣品材質 : 聚甲醛.  
收樣日期 : 2019/12/13.  
測試期間 : 2019/12/13 TO 2019/12/19.  
送樣廠商 : 台灣塑膠工業股份有限公司.

測試需求 : 依據客戶要求, 參考RoHS2011/65/EU ANNEX II及其修訂指令(EU)2015/863測試  
鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚、DBP、BBP、DEHP & DIBP.

測試結果 : 測試結果請見下頁.

張伯睿  
報告簽署人/張伯睿 博士/技術經理  
化學實驗室-高雄



# 試驗報告

報告號碼：KE/2019/C0704A-01

報告發行日期：2019/12/19

頁數：第 2 頁, 共 5 頁

## 測試結果：

測試項目	單位	測試方法	MDL	限量值	測試結果	結論
鎘 (Cd)	ppm	參考IEC 62321-5:2013方法, 以感應耦合電漿-光學放射光譜儀做分析.	2	<100	n.d.	通過
鉛 (Pb)	ppm	參考IEC 62321-5:2013方法, 以感應耦合電漿-光學放射光譜儀做分析.	2	<1000	n.d.	通過
汞 (Hg)	ppm	參考IEC 62321-4:2013方法, 以感應耦合電漿-光學放射光譜儀做分析.	2	<1000	n.d.	通過
六價鉻(Cr VI)	ppm	參考IEC 62321-7-2:2017, 以UV-VIS 檢測.	8	<1000	n.d.	通過
<b>多溴聯苯 (PBBs)</b>	---	---	---	---	---	---
一溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
二溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
三溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
四溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
五溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
六溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
七溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
八溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
九溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明, 此報告結果僅對測試之樣品負責。本報告未經本公司書面許可, 不可部分複製。  
 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/en/terms-and-conditions/terms-e-document](http://www.sgs.com/en/terms-and-conditions/terms-e-document). 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 instructions, 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.

# 試驗報告

報告號碼：KE/2019/C0704A-01

報告發行日期：2019/12/19

頁數：第 3 頁, 共 5 頁

測試項目	單位	測試方法	MDL	限量值	測試結果	結論
十溴聯苯	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
<b>多溴聯苯醚 (PBDEs)</b>	---	---	---	---	---	---
一溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
二溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
三溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
四溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
五溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
六溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
七溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
八溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
九溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
十溴聯苯醚	ppm	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測.	5	---	n.d.	---
<b>可塑劑</b>	---	---	---	---	---	---
鄰苯二甲酸二異丁酯 (DIBP) (CAS NO.84-69-5)	ppm	參考IEC 62321-8:2017, 以氣相層析儀/質譜儀檢測.	50	<1000	n.d.	通過
鄰苯二甲酸二丁酯 (DBP) (CAS NO.84-74-2)	ppm	參考IEC 62321-8:2017, 以氣相層析儀/質譜儀檢測.	50	<1000	n.d.	通過
鄰-苯二甲酸丁脂苯甲脂 (BBP) (CAS NO.85-68-7)	ppm	參考IEC 62321-8:2017, 以氣相層析儀/質譜儀檢測.	50	<1000	n.d.	通過

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。  
 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/en/terms-and-conditions/terms-e-document](http://www.sgs.com/en/terms-and-conditions/terms-e-document). 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 instructions, 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.

## 試驗報告

報告號碼：KE/2019/C0704A-01

報告發行日期：2019/12/19

頁數：第 4 頁, 共 5 頁

測試項目	單位	測試方法	MDL	限量值	測試結果	結論
鄰苯二甲酸二(2-乙己基)脂 (DEHP) (CAS NO.117-81-7)	ppm	參考IEC 62321-8:2017, 以氣相層析儀/質譜儀檢測.	50	<1000	n.d.	通過

備註 (1) : ppm = mg/kg

備註 (2) : MDL = 方法偵測極限值

備註 (3) : n.d. = 未偵測出

備註 (4) : 本報告為 KE/2019/C0704之加發報告，報告加發日期 2019年12月19日。

## 試驗報告

報告號碼：KE/2019/C0704A-01

報告發行日期：2019/12/19

頁數：第 5 頁, 共 5 頁

### 樣品照片

\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位.\*

## KE/2019/C0704



\*\* 報告結尾 \*\*

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company.除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。  
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/en/terms-and-conditions/terms-e-document](http://www.sgs.com/en/terms-and-conditions/terms-e-document). 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 instructions, 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.