

## 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/2018/C1234A-01

日期：2018/12/27

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	: FM270.
樣品材質	: 聚甲醛.
收樣日期	: 2018/12/22.
測試期間	: 2018/12/22 TO 2018/12/27.
送樣廠商	: 台灣塑膠工業股份有限公司.

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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



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## 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.	---

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測試項目	單位	測試方法	MDL	限量值	測試結果	結論
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.	---
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.	---
多溴聯苯總和	ppm	---	---	<1000	n.d.	通過
多溴聯苯醚 (PBDEs)	---	---	---	---	---	---
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.	---
多溴聯苯醚總和	ppm	---	---	<1000	n.d.	通過

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測試項目	單位	測試方法	MDL	限量值	測試結果	結論
可塑劑	---	---	---	---	---	---
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
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)：此為2018/12/27所發行KE/2018/C1234之加發報告，原始資料請參考KE/2018/C1234。

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### 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/2018/C1234



\*\* 報告結尾 \*\*