

台灣塑膠工業股份有限公司

高雄市林園區石化一路一號之一

報告號碼:KE/2019/C1531A-01 報告發行日期: 2020/01/03

數:第1頁,共8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 : 無規共聚物聚丙烯.

樣品顏色 : 透明微白色.

樣品型號 : 5003,5018,5016XT,5018T,5020,5030,5050,5050M,5050R,5050S,5060,

5060T,5070,5071,5090T,5090R,5200U,5200XT,5250T,5300XT,5310F,

樣品材質 : 100%聚丙烯共聚物.

收樣日期 : 2019/12/27.

測試期間 : 2019/12/27 TO 2020/01/03.

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.

化學實驗室-高雄

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報告號碼: KE/2019/C1531A-01

報告發行日期: 2020/01/03 數:第2頁,共8頁

#### 測試結果:

測試項目	單位	測試方法	MDL	測試結果
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	n.d.
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	n.d.
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	n.d.
六價鉻(Cr VI)	ppm	參考IEC 62321-7-2:2017,以UV-VIS檢測.	8	n.d.
多溴聯苯 (PBBs)				
一溴聯苯	ppm	参考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	参考IEC 62321-6: 2015方法, 以氣相層析/質 譜儀檢測.	5	n.d.
五溴聯苯	ppm	参考IEC 62321-6: 2015方法, 以氣相層析/質 譜儀檢測.	5	n.d.
六溴聯苯	ppm	参考IEC 62321-6: 2015方法, 以氣相層析/質 譜儀檢測.	5	n.d.
七溴聯苯	ppm	参考IEC 62321-6: 2015方法, 以氣相層析/質 譜儀檢測.	5	n.d.
八溴聯苯	ppm	参考IEC 62321-6: 2015方法, 以氣相層析/質 譜儀檢測.	5	n.d.

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報告號碼: KE/2019/C1531A-01 報告發行日期: 2020/01/03

數:第3頁,共10頁

測試項目	單位	測試方法	MDL	測試結果
九溴聯苯	ppm	参考IEC 62321-6: 2015方法, 以氣相層析/質 譜儀檢測.	5	n.d.
十溴聯苯	ppm	参考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			n.d.
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	参考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	参考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	参考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	参考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	参考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	参考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	参考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	参考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			n.d.



報告號碼: KE/2019/C1531A-01

報告發行日期: 2020/01/03

數:第4頁,共8頁

測試項目	單位	測試方法	MDL	測試結果
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	n.d.
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	n.d.
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	n.d.
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	n.d.

備 註(1):ppm=mg/kg

註(2): MDL = 方法偵測極限值

備 註(3): n.d. = 未偵測出

註(4): 本報告為 KE/2019/C1531之加發報告,報告加發日期 2020年01月03日。

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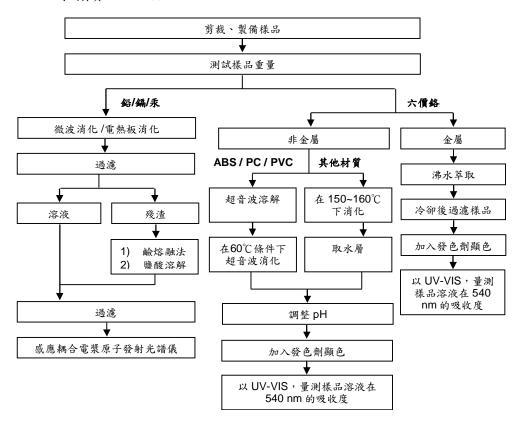
報告號碼: KE/2019/C1531A-01

報告發行日期: 2020/01/03 數:第5頁,共8頁

#### 重金屬流程圖

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

■ 測試人員:劉俊宏 測試負責人:張伯睿



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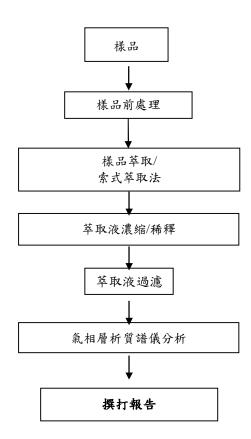


報告號碼: KE/2019/C1531A-01

報告發行日期: 2020/01/03 數:第6頁,共8頁

### 多溴聯苯/多溴聯苯醚分析流程圖

1)測試人員:陳威錚 2)測試負責人:張伯睿



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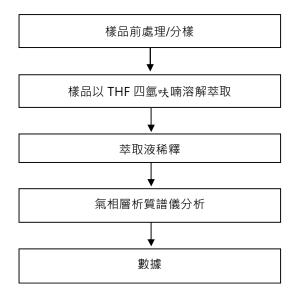
報告號碼: KE/2019/C1531A-01

報告發行日期: 2020/01/03 數:第7頁,共8頁

#### 可塑劑分析流程圖

測試人員:陳威錚 測試負責人:張伯睿

【測試方法: IEC 62321-8】





報告號碼: KE/2019/C1531A-01 報告發行日期: 2020/01/03

數:第8頁,共8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/C1531



\*\* 報告結尾 \*\*

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