



# 測試報告 Test Report

號碼(No.): ETR21B04922

日期(Date): 02-Dec-2021

頁數(Page): 1 of 7

達辰塑膠廠股份有限公司 (DA CHAN PLASTIC FACTORY CO., LTD.)

雲林縣斗六市科加六路19號 (NO. 19, KEJIA 6TH RD., DOULIU CITY, YUNLIN COUNTY 640, TAIWAN (R. O. C.))

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/on behalf of the applicant as) :

送樣廠商(Sample Submitted By) : 達辰塑膠廠股份有限公司 (DA CHAN PLASTIC FACTORY CO., LTD.)

樣品名稱(Sample Name) : LLDPE FILM (LLDPE 膜)

收件日(Sample Receiving Date) : 25-Nov-2021

測試期間(Testing Period) : 25-Nov-2021 to 02-Dec-2021

測試需求(Test Requested) : 依據客戶指定·參考RoHS 2011/65/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。(As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

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



PIN CODE: 564F438B

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## 測試部位敘述 (Test Part Description)

No.1 : 透明塑膠膜 (TRANSPARENT PLASTIC FILM)

## 測試結果 (Test Results)

| 測試項目<br>(Test Items)  | 測試方法<br>(Method)   | 單位<br>(Unit) | MDL  | 結果<br>(Result) |
|---|--|--------------|------|----------------|
|   |  |              |      | No.1           |
| 鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)                    | 參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)                         | mg/kg        | 2    | n.d.           |
| 鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)                       |  | mg/kg        | 2    | n.d.           |
| 汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)                    | 參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.) | mg/kg        | 2    | n.d.           |
| 六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) (CAS No.: 18540-29-9) | 參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)                     | mg/kg        | 8    | n.d.           |
| 一溴聯苯 (Monobromobiphenyl)                                      | 參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)                             | mg/kg        | 5    | n.d.           |
| 二溴聯苯 (Dibromobiphenyl)  |  | mg/kg        | 5    | n.d.           |
| 三溴聯苯 (Tribromobiphenyl)                                       |  | mg/kg        | 5    | n.d.           |
| 四溴聯苯 (Tetrabromobiphenyl)                                     |  | mg/kg        | 5    | n.d.           |
| 五溴聯苯 (Pentabromobiphenyl)                                     |  | mg/kg        | 5    | n.d.           |
| 六溴聯苯 (Hexabromobiphenyl)                                      |  | mg/kg        | 5    | n.d.           |
| 七溴聯苯 (Heptabromobiphenyl)                                     |  | mg/kg        | 5    | n.d.           |
| 八溴聯苯 (Octabromobiphenyl)                                      |  | mg/kg        | 5    | n.d.           |
| 九溴聯苯 (Nonabromobiphenyl)                                      |  | mg/kg        | 5    | n.d.           |
| 十溴聯苯 (Decabromobiphenyl)                                      |  | mg/kg        | 5    | n.d.           |
| 多溴聯苯總和 (Sum of PBBs)  | mg/kg  | -            | n.d. |                |

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雲林縣斗六市科加六路19號 (NO. 19, KEJIA 6TH RD., DOULIU CITY, YUNLIN COUNTY 640, TAIWAN (R. O. C.))

| 測試項目<br>(Test Items)  | 測試方法<br>(Method)   | 單位<br>(Unit) | MDL | 結果<br>(Result) |
|---|--|--------------|-----|----------------|
|   |  |              |     | No.1           |
| 一溴聯苯醚 (Monobromodiphenyl ether)   | 參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) | mg/kg        | 5   | n.d.           |
| 二溴聯苯醚 (Dibromodiphenyl ether)   |  | mg/kg        | 5   | n.d.           |
| 三溴聯苯醚 (Tribromodiphenyl ether)  |  | mg/kg        | 5   | n.d.           |
| 四溴聯苯醚 (Tetrabromodiphenyl ether)  |  | mg/kg        | 5   | n.d.           |
| 五溴聯苯醚 (Pentabromodiphenyl ether)  |  | mg/kg        | 5   | n.d.           |
| 六溴聯苯醚 (Hexabromodiphenyl ether)   |  | mg/kg        | 5   | n.d.           |
| 七溴聯苯醚 (Heptabromodiphenyl ether)  |  | mg/kg        | 5   | n.d.           |
| 八溴聯苯醚 (Octabromodiphenyl ether)   |  | mg/kg        | 5   | n.d.           |
| 九溴聯苯醚 (Nonabromodiphenyl ether)   |  | mg/kg        | 5   | n.d.           |
| 十溴聯苯醚 (Decabromodiphenyl ether)   |  | mg/kg        | 5   | n.d.           |
| 多溴聯苯醚總和 (Sum of PBDEs)  |  | mg/kg        | -   | n.d.           |
| 鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)               | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg        | 50  | n.d.           |
| 鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)                     |  | mg/kg        | 50  | n.d.           |
| 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)               |  | mg/kg        | 50  | n.d.           |
| 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) |  | mg/kg        | 50  | n.d.           |

### 備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 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. "-" = Not Regulated (無規格值)

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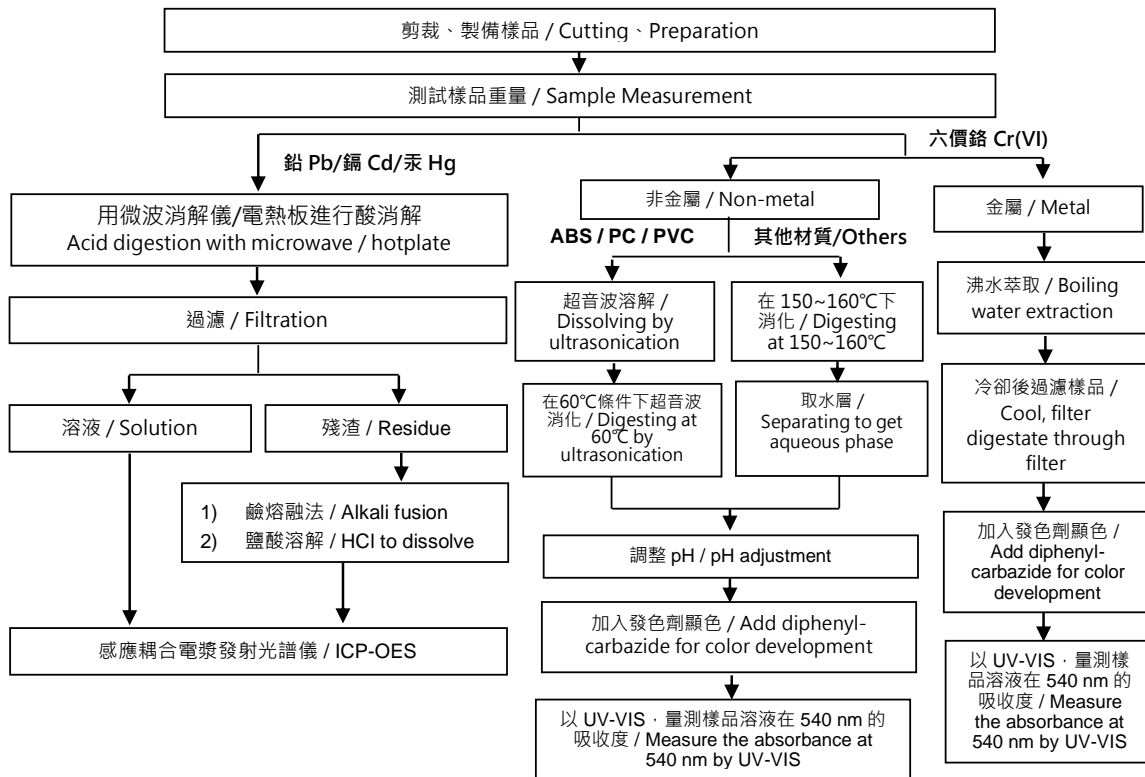
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雲林縣斗六市科加六路19號 (NO. 19, KEJIA 6TH RD., DOULIU CITY, YUNLIN COUNTY 640, TAIWAN (R. O. C.))

### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)



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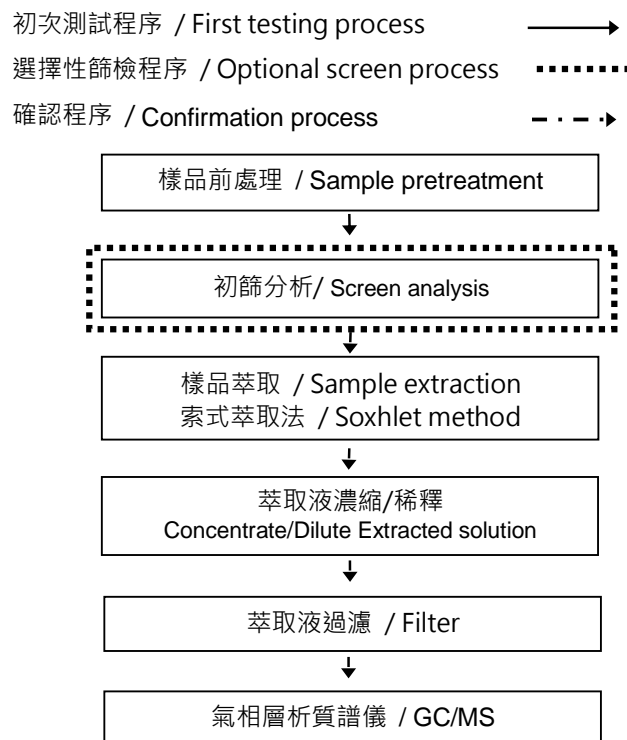
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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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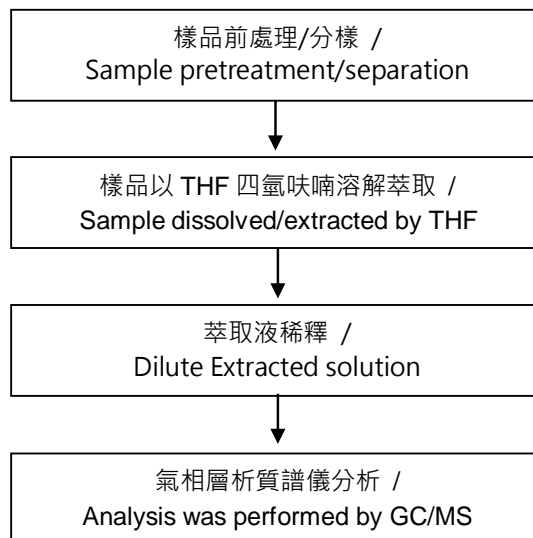
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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\* 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.)

### ETR21B04922



\*\* 報告結尾 (End of Report) \*\*

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