測試報告
Test Report

台灣化學纖維股份有限公司
FORMOSA CHEMICALS & FIBRE CORPORATION
台北市敦化北路201號
201, TUNG HWA N. ROAD, TAIPEI, 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/on behalf of the applicant as):

送樣廠商 (Sample Submitted By) : 台灣化學纖維股份有限公司 (FORMOSA CHEMICALS & FIBRE CORPORATION)
樣品名稱 (Sample Description) : POLYPROPYLENE HOMO POLYMER (聚丙烯單聚合物)
收件日期 (Sample Receiving Date) : 2020/04/08
測試期間 (Testing Period) : 2020/04/08 to 2020/04/15

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ㄧ頁 (Please refer to following pages).

結論 (Conclusion) : 根據客戶所提供的樣品，鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II及其修訂指令 (EU) 2015/863之限值要求。

Based on the performed tests on submitted sample(s), the test results for Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

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### 測試報告

**Test Report**

台灣化學纖維股份有限公司

**FORMOSA CHEMICALS & FIBRE CORPORATION**
台北市敦化北路201號

100, TUNG HWA N. ROAD, TAIPEI, TAIWAN

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### 測試結果(Test Results)

測試部位(PART NAME): No.1 ：半透明白色塑膠粒（TRANSLUCENT-WHITE PLASTIC PELLETS）

<table>
<thead>
<tr>
<th>測試項目(Test Items)</th>
<th>單位(Unit)</th>
<th>測試方法(Method)</th>
<th>MDL</th>
<th>結果(Result)</th>
<th>限值(Limit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>鎘 / Cadmium (Cd)</td>
<td>mg/kg</td>
<td>參考 IEC 62321-5 (2013)，以感應耦合電漿發射光譜儀檢測。 / With reference to IEC 62321-5 (2013) and performed by ICP-OES.</td>
<td>2</td>
<td>n.d.</td>
<td>100</td>
</tr>
<tr>
<td>鋅 / Lead (Pb)</td>
<td>mg/kg</td>
<td>參考 IEC 62321-5 (2013)，以感應耦合電漿發射光譜儀檢測。 / With reference to IEC 62321-5 (2013) and performed by ICP-OES.</td>
<td>2</td>
<td>n.d.</td>
<td>1000</td>
</tr>
<tr>
<td>水 / Mercury (Hg)</td>
<td>mg/kg</td>
<td>參考 IEC 62321-4:2013+ AMD1:2017，以感應耦合電漿發射光譜儀檢測。 / With reference to IEC 62321-4:2013+ AMD1:2017 and performed by ICP-OES.</td>
<td>2</td>
<td>n.d.</td>
<td>1000</td>
</tr>
<tr>
<td>六價鉻 / Hexavalent Chromium Cr(VI)</td>
<td>mg/kg</td>
<td>參考 IEC 62321-7-2 (2017)，以UV-VIS檢測。 / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.</td>
<td>8</td>
<td>n.d.</td>
<td>1000</td>
</tr>
<tr>
<td>多溴聯苯總和 / Sum of PBBs</td>
<td>mg/kg</td>
<td></td>
<td>-</td>
<td>n.d.</td>
<td>1000</td>
</tr>
<tr>
<td>一溴甲苯 / Monobromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
<tr>
<td>二溴甲苯 / Dibromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
<tr>
<td>三溴甲苯 / Tribromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
<tr>
<td>四溴甲苯 / Tetrabromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
<tr>
<td>五溴甲苯 / Pentabromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
<tr>
<td>六溴甲苯 / Hexabromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
<tr>
<td>七溴甲苯 / Heptabromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
<tr>
<td>八溴甲苯 / Octabromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
<tr>
<td>九溴甲苯 / Nonabromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
<tr>
<td>十溴甲苯 / Decabromobiphenyl</td>
<td>mg/kg</td>
<td>參考 IEC 62321-6 (2015)，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
<td>-</td>
</tr>
</tbody>
</table>
# Test Report

## FORMOSA CHEMICALS & FIBRE CORPORATION

台北市敦化北路201號
201, TUNG HWA N. ROAD, TAIPEI, TAIWAN

## 台灣檢驗科技股份有限公司

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### Test Items

<table>
<thead>
<tr>
<th>多溴聯苯醚總和 / Sum of PBDEs</th>
<th>mg/kg</th>
<th>MDL</th>
<th>No. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>一溴聯苯醚 / Monobromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>二溴聯苯醚 / Dibromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>三溴聯苯醚 / Tribromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>四溴聯苯醚 / Tetrabromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>五溴聯苯醚 / Pentabromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>六溴聯苯醚 / Hexabromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>七溴聯苯醚 / Heptabromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>八溴聯苯醚 / Octabromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>九溴聯苯醚 / Nonabromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>十溴聯苯醚 / Decabromodiphenyl ether</td>
<td>mg/kg</td>
<td>5</td>
<td>n.d.</td>
</tr>
</tbody>
</table>

### DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)

<table>
<thead>
<tr>
<th>DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)</th>
<th>mg/kg</th>
<th>MDL</th>
<th>No. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>n.d.</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>

### BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)

<table>
<thead>
<tr>
<th>BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)</th>
<th>mg/kg</th>
<th>MDL</th>
<th>No. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>n.d.</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>

### DBP (Dibutyl phthalate) (CAS No. : 84-74-2)

<table>
<thead>
<tr>
<th>DBP (Dibutyl phthalate) (CAS No. : 84-74-2)</th>
<th>mg/kg</th>
<th>MDL</th>
<th>No. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>n.d.</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>

### DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)

<table>
<thead>
<tr>
<th>DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)</th>
<th>mg/kg</th>
<th>MDL</th>
<th>No. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>n.d.</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>

### 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)
4. "-" = Not Regulated (無規格值)
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Test Report
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

1. Initial testing process / First testing process
2. Optional screen process / Optional screen process
3. Confirmation process / Confirmation process

Sample / 應品
Sample pretreatment / 應品前處理
Screen analysis / 初篩分析
Sample extraction / 應品萃取
Concentrate/Dilute Extracted solution / 萃取液濃縮/稀釋
Filter / 萃取液過濾
GC/MS / 氣相層析質譜儀
測試報告
Test Report

台灣化學纖維股份有限公司
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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】

1. 樣品前處理/分樣 / Sample pretreatment/separation
2. 樣品以 THF 四氫呋喃溶解萃取 / Sample dissolved/extracted by THF
3. 萃取液稀釋 / Dilute Extracted solution
4. 氣相層析質譜儀分析 / Analysis was performed by GC/MS

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(The tested sample / part is marked by an arrow if it's shown on the photo.)