

## 測試報告

## Test Report

號碼(No.) : CE/2019/24122

日期(Date) : 2019/02/26

頁數(Page): 1 of 8

龍興塑膠科技股份有限公司

DRAGON SHINGROTOCASTING CO., LTD.

彰化縣伸港鄉全興村全興路1之15號

NO. 1-15 CHUAN SHING ROAD, SHEN KANG SHIANG, CHANG HUA HSIEN, 509 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) : 龍興塑膠科技股份有限公司 (DRAGON SHINGROTOCASTING CO., LTD.)  
樣品名稱(Sample Description) : POROUS PLASTIC (多孔塑膠)  
樣品型號(Style/Item No.) : 阻水塞 (SELF-SEALING CUP)  
收件日期(Sample Receiving Date) : 2019/02/20  
測試期間(Testing Period) : 2019/02/20 to 2019/02/26

### 測試需求(Test Requested):

- (1) 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).)
- (2) 其他測試項目請見下一頁. (Please refer to next pages for the other item(s).)

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

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



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DRAGON SHING ROTOCASTING CO., LTD.

彰化縣伸港鄉全興村全興路1之15號

NO. 1-15 CHUAN SHING ROAD, SHEN KANG SHIANG, CHANG HUA HSIEN, 509 TAIWAN R. O. C.

## 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 白色塑膠 (WHITE PLASTIC)

| 測試項目<br>(Test Items)             | 單位<br>(Unit) | 測試方法<br>(Method)  | 方法偵測<br>極限值<br>(MDL) | 結果<br>(Result) |
|----------------------------------|--------------|---|----------------------|----------------|
|                                  |              |   |                      | No. 1          |
| 鎘 / Cadmium (Cd)                 | mg/kg        | 參考 IEC 62321-5 (2013), 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-AES. | 2                    | n. d.          |
| 鉛 / Lead (Pb)                    | mg/kg        |   | 2                    | n. d.          |
| 汞 / Mercury (Hg)                 | mg/kg        | 參考 IEC 62321-4 (2013), 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4 (2013) and performed by ICP-AES. | 2                    | n. d.          |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg        | 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.   | 8                    | n. d.          |
| 多溴聯苯總和 / Sum of PBBs             | mg/kg        | 參考 IEC 62321-6 (2015), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.       | -                    | n. d.          |
| 一溴聯苯 / Monobromobiphenyl         | 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.                |                |

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DRAGON SHING ROTOCASTING CO., LTD.

彰化縣伸港鄉全興村全興路1之15號

NO. 1-15 CHUAN SHING ROAD, SHEN KANG SHIANG, CHANG HUA HSIEN, 509 TAIWAN R. O. C.

| 測試項目<br>(Test Items)  | 單位<br>(Unit) | 測試方法<br>(Method)   | 方法偵測<br>極限值<br>(MDL) | 結果<br>(Result) |
|---|--------------|--|----------------------|----------------|
|   |              |  |                      | No. 1          |
| 多溴聯苯醚總和 / Sum of PBDEs  | mg/kg        | 參考IEC 62321-6 (2015), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.           | -                    | n. d.          |
| 一溴聯苯醚 / Monobromodiphenyl ether   | 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.                |                |
| 鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)                | mg/kg        | 參考IEC 62321-8 (2017), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS. | 50                   | n. d.          |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)                      | mg/kg        |  | 50                   | n. d.          |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)   | mg/kg        |  | 50                   | n. d.          |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)                | mg/kg        |  | 50                   | n. d.          |
| 鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No. : 26761-40-0; 68515-49-1) | mg/kg        |  | 50                   | n. d.          |
| 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No. : 28553-12-0; 68515-48-0) | mg/kg        |  | 50                   | n. d.          |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No. : 117-84-0)                | mg/kg        |  | 50                   | n. d.          |

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DRAGON SHING ROTOCASTING CO., LTD.

彰化縣伸港鄉全興村全興路1之15號

NO. 1-15 CHUAN SHING ROAD, SHEN KANG SHIANG, CHANG HUA HSIEN, 509 TAIWAN R. O. C.

### 備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n. d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)

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彰化縣伸港鄉全興村全興路1之15號

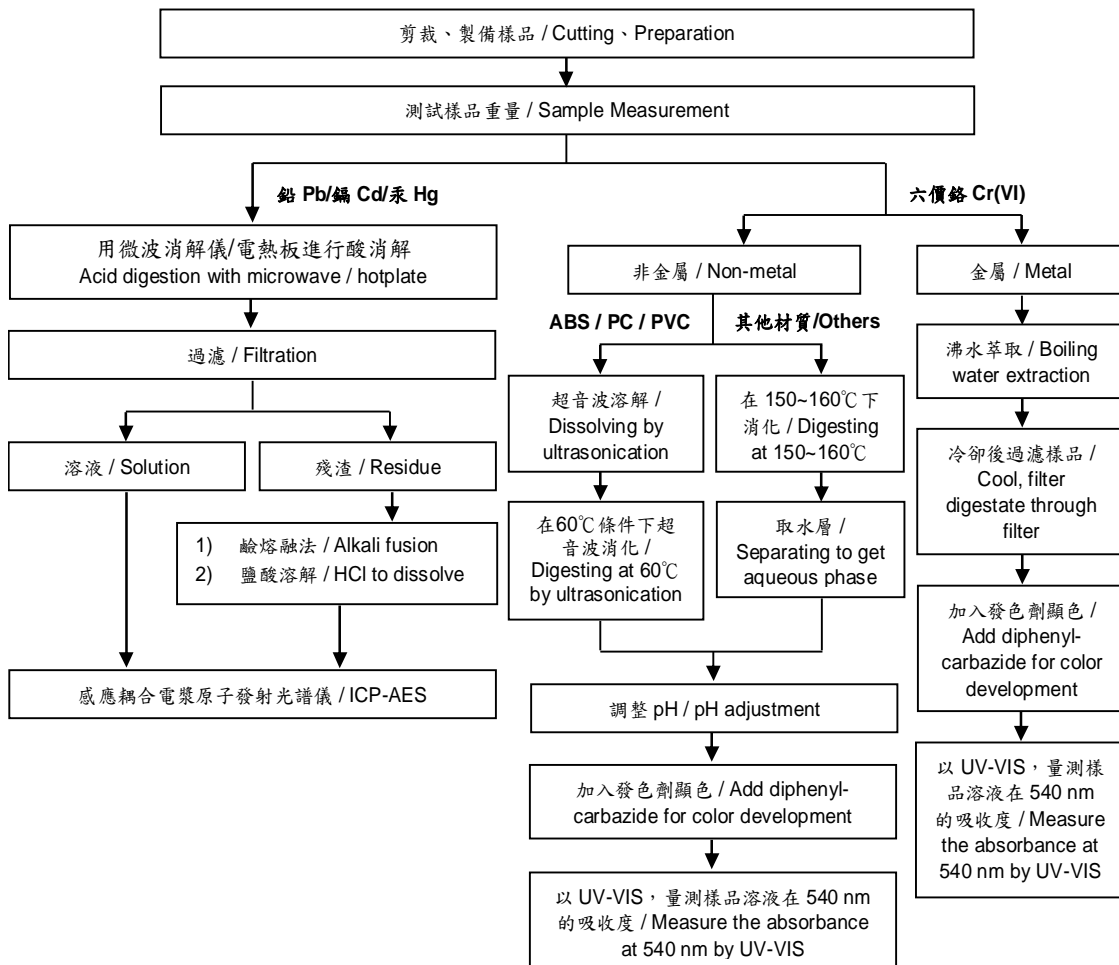
NO. 1-15 CHUAN SHING ROAD, SHEN KANG SHIANG, CHANG HUA HSIEN, 509 TAIWAN R. O. C.

### 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)

- 測試人員：陳思臻 / Technician : Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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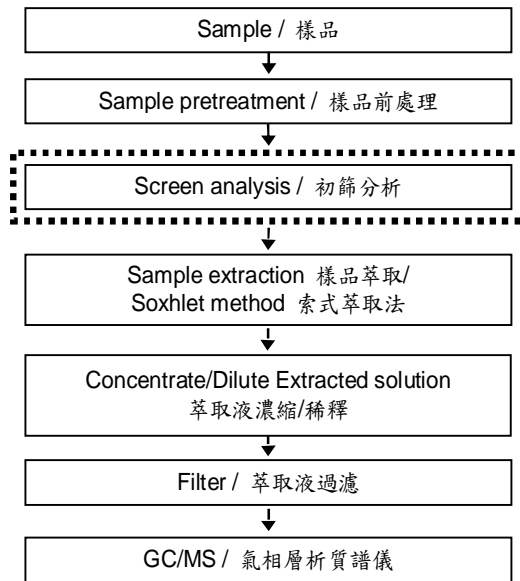
彰化縣伸港鄉全興村全興路1之15號

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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process —————>  
 選擇性篩檢程序 / Optional screen process .....  
 確認程序 / Confirmation process - - ->



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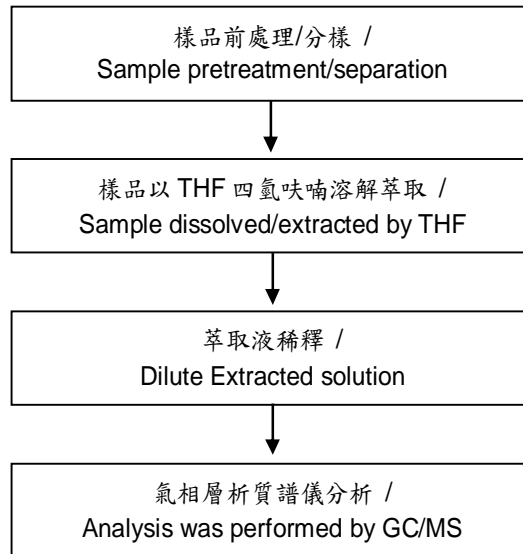
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NO. 1-15 CHUAN SHING ROAD, SHEN KANG SHIANG, CHANG HUA HSIEN, 509 TAIWAN R. O. C.

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

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor : Troy Chang

#### 【測試方法/Test method: IEC 62321-8】



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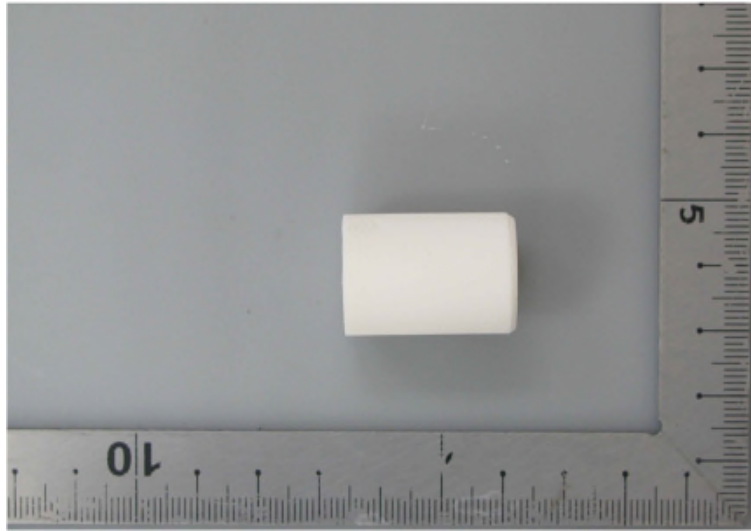
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

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

### CE/2019/24122



\*\* 報告結尾 (End of Report) \*\*