

## 測試報告

## Test Report

號碼(No.) : CE/2019/20052

日期(Date) : 2019/02/15

頁數(Page): 1 of 9

翊聖企業股份有限公司

FRANK & ASSOCIATES PLASTIC CO., LTD.

桃園市龜山區龜山工業區興邦路33-1號

NO. 33-1, HSIN-BON RD., KWEI-SAN INDUSTRIAL AREA, TAOYUAN CITY, 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) : 翊聖企業股份有限公司 (FRANK & ASSOCIATES PLASTIC CO., LTD.)  
樣品名稱(Sample Description) : PE FILM (PE薄膜)  
樣品型號(Style/Item No.) : 請參考第5頁 (PLEASE REFER TO PAGE 5)  
收件日期(Sample Receiving Date) : 2019/02/01  
測試期間(Testing Period) : 2019/02/01 to 2019/02/15

### 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).

結論(Conclusion) : (1) 根據客戶所提供的樣品, 其鎘、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暨其修訂指令(EU) 2015/863之限值要求. (Based on the performed tests on submitted sample(s), the test results of 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 - Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



# 測試報告

## Test Report

號碼(No.) : CE/2019/20052

日期(Date) : 2019/02/15

頁數(Page): 2 of 9

翊聖企業股份有限公司

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### 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 透明塑膠膜 (TRANSPARENT PLASTIC FILM)

| 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) | 限值<br>(Limit) |
|----------------------------------|--------------|--|----------------------|----------------|---------------|
|                                  |              |  |                      | No. 1          |               |
| 鎘 / Cadmium (Cd)                 | mg/kg        | 參考IEC 62321-5 (2013), 以感應耦合<br>電漿原子發射光譜儀檢測. / With<br>reference to IEC 62321-5 (2013)<br>and performed by ICP-AES. | 2                    | n. d.          | 100           |
| 鉛 / Lead (Pb)                    | mg/kg        |  | 2                    | n. d.          | 1000          |
| 汞 / Mercury (Hg)                 | mg/kg        | 參考IEC 62321-4 (2013), 以感應耦合<br>電漿原子發射光譜儀檢測. / With<br>reference to IEC 62321-4 (2013)<br>and performed by ICP-AES. | 2                    | n. d.          | 1000          |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg        | 參考IEC 62321-7-2 (2017), 以UV-VIS<br>檢測. / With reference to IEC<br>62321-7-2 (2017) and performed by<br>UV-VIS.     | 8                    | n. d.          | 1000          |
| 多溴聯苯總和 / Sum of PBBs             | mg/kg        | 參考IEC 62321-6 (2015), 以氣相層析<br>儀/質譜儀檢測. / With reference to<br>IEC 62321-6 (2015) and performed<br>by GC/MS.       | -                    | n. d.          | 1000          |
| 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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# 測試報告

# Test Report

號碼(No.) : CE/2019/20052

日期(Date) : 2019/02/15

頁數(Page): 3 of 9

翊聖企業股份有限公司

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| 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) | 限值<br>(Limit) |
|---|--------------|--|----------------------|----------------|---------------|
|   |              |  |                      | 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.          | 1000          |
| 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.                | -              |               |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)   | 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.          | 1000          |
| 鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)                | mg/kg        |  | 50                   | n. d.          | 1000          |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)                      | mg/kg        |  | 50                   | n. d.          | 1000          |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)                | mg/kg        |  | 50                   | n. d.          | 1000          |
| 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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## 測試報告

# Test Report

號碼(No.) : CE/2019/20052

日期(Date) : 2019/02/15

頁數(Page): 4 of 9

翊聖企業股份有限公司

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### 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)

# 測試報告

# Test Report

號碼(No.) : CE/2019/20052

日期(Date) : 2019/02/15

頁數(Page): 5 of 9

翊聖企業股份有限公司

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樣品型號(Style/Item No.) :

AF1010、AF2020、AF205、AF2052、AF2052B、AF206、AF2060、BF101、CP1020、CP103、CP301、CP302、CP302W、CP303、CP3030、CP501、EF101、EF1012、EF102、EF302、EP103、EP104、EP105、EP1052、EP1052W、ET101、GF201、GF301、HF103、HF2010、HF501、HF5010、HF502、HF502WD、HF503、HF503W、HF505、HF506、HF508、HF531W、HF533、HF601W、HF602W、HF602、KF211、KF2110、LP121N2、LP302N2、LP305N2、LP321N1、LP851N1、LP852N1、LP853N1、MF102、MF112、MF2010、MF2020、MF2010W、PF102W、PF201、PF201B、PF202、PF2020、PF202B、PF203、PF203B、PF2032、PF2032B、PF311、PF311W、PF3520D、PF261、RF1030、RF2010、RF2010B、RF401、RF401A、RF401B、RF401R、RF401W、RF401Y、RF402A、RF402W、SF111W、SF112W、SF113W、SF114W  
UF101W、UF102、UF103、UF107、UF107W、UF109W、UF201、UF2010、UF2012、UF202、UF203、UF204、UF2050、UF206、UF208、UF221、UF2210B、UF222、UF222W、UF225、UF231、UF231D、UF231W、UF231WD、UF232、UF241、UF301、UF302、UF3020、UF3020W、UF302W、UF3030、UF312、UF322、UF332、UF3320、UF331W、UF332W、UF334、UF335、UF336、UF521、UG201、UG231、UT101W、UT102、UT1020、UT102W、UT103、UT107、UT107W、UT109W、UT110、UT111、UT3020、UT3043、UT8510、UT8520、PE BAG、LDPE、LLDPE

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## 測試報告

## Test Report

號碼(No.) : CE/2019/20052

日期(Date) : 2019/02/15

頁數(Page): 6 of 9

翊聖企業股份有限公司

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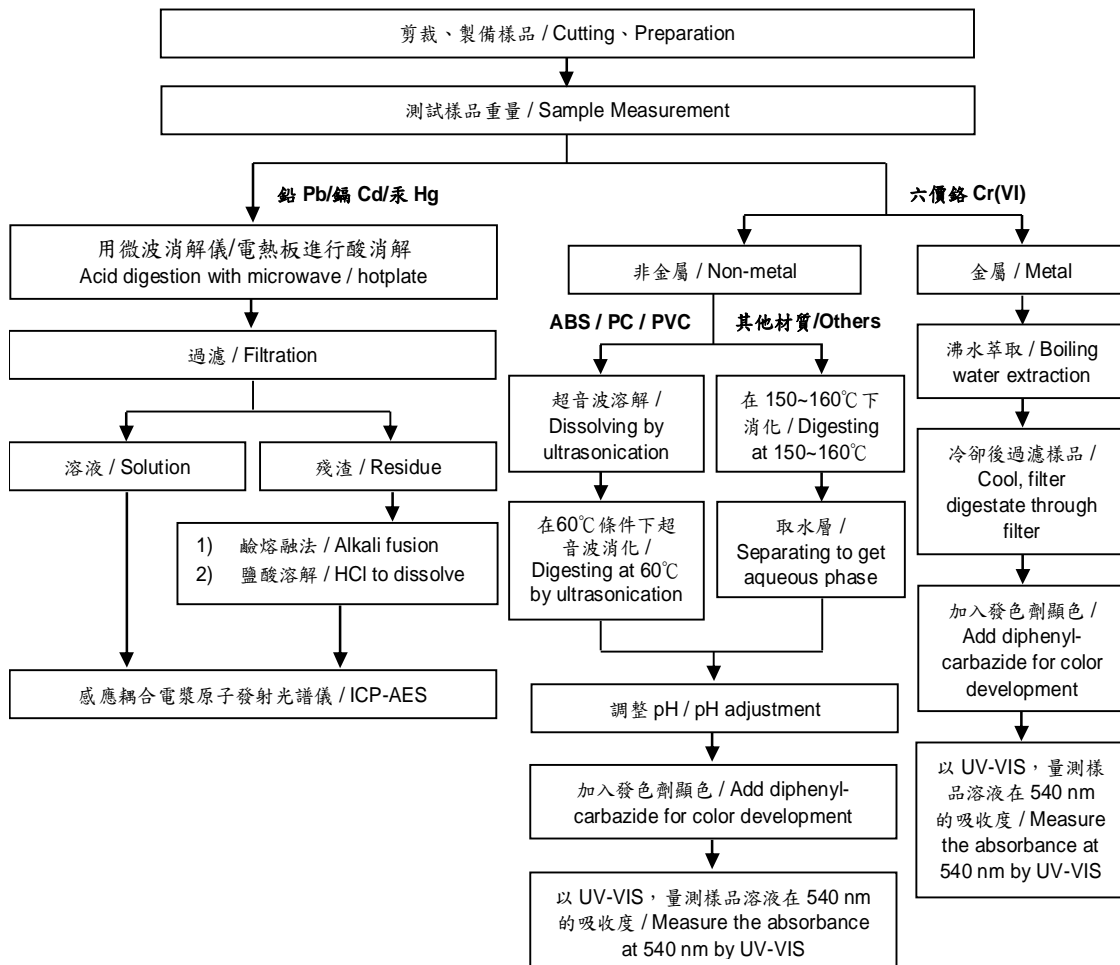
NO. 33-1, HSIN-BON RD., KWEI-SAN INDUSTRIAL AREA, TAOYUAN CITY, TAIWAN

### 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



## 測試報告

## Test Report

號碼(No.) : CE/2019/20052

日期(Date) : 2019/02/15

頁數(Page): 7 of 9

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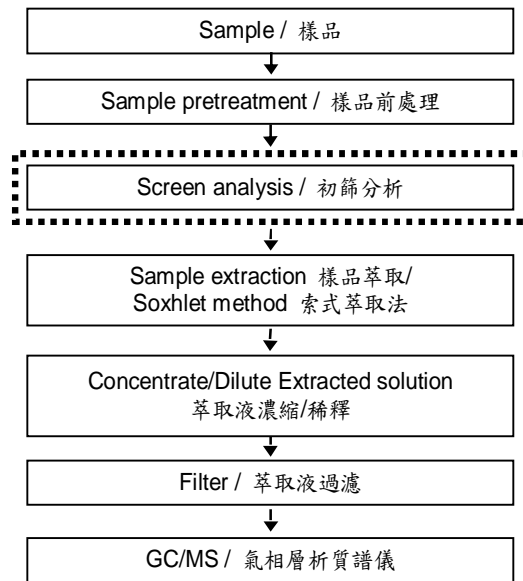
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NO. 33-1, HSIN-BON RD., KWEI-SAN INDUSTRIAL AREA, TAOYUAN CITY, TAIWAN

### 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 - - - ->



# 測試報告

# Test Report

號碼(No.) : CE/2019/20052

日期(Date) : 2019/02/15

頁數(Page): 8 of 9

翊聖企業股份有限公司

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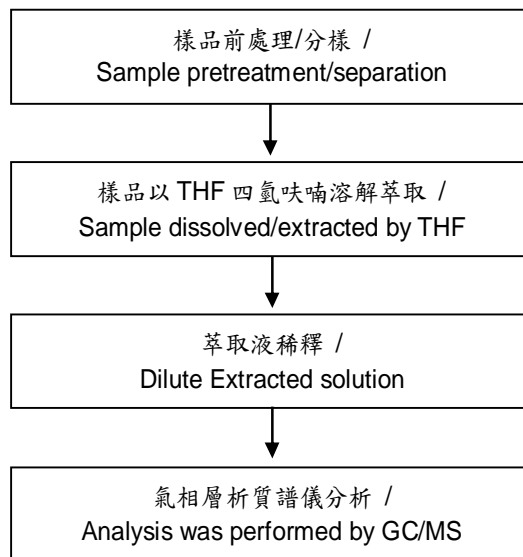
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 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】





## 測試報告

## Test Report

號碼(No.) : CE/2019/20052

日期(Date) : 2019/02/15

頁數(Page): 9 of 9

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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/2019/20052



\*\* 報告結尾 (End of Report) \*\*