

## 測試報告

## Test Report

號碼(No.) : CE/2017/85293

日期(Date) : 2017/09/01

頁數(Page): 1 of 9

中華紙漿股份有限公司

CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING S. RD., JHONGZHENG DISTRICT, TAIPEI CITY 100, 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) : 中華紙漿股份有限公司 (CHUNG HWA PULP CORPORATION)  
樣品名稱(Sample Description) : GLASSINE PAPER (格拉新)  
收件日期(Sample Receiving Date) : 2017/08/25  
測試期間(Testing Period) : 2017/08/25 TO 2017/09/01

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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### 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 白色紙張 (WHITE PAPER)

| 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        | 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.          |
| 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)<br>(◆)   | mg/kg        | 參考 IEC 62321-7-2 (2017), 以 UV-VIS 檢測; 參考 IEC 62321-5 (2013), 以 ICP-AES 檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-AES. | 8                    | n. d.          |
| 六溴環十二烷及所有主要被辨別出的異構物<br>/ Hexabromocyclododecane (HBCDD) and<br>all major diastereoisomers identified<br>( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS<br>No.: 25637-99-4 and 3194-55-6 (134237-<br>51-7, 134237-50-6, 134237-52-8)) | mg/kg        | 參考 IEC 62321 (2008), 以氣相層析/<br>質譜儀檢測. / With reference to<br>IEC 62321 (2008). Analysis was<br>performed by GC/MS.  | 5                    | n. d.          |

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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) |
|----------------------------------|--------------|---|----------------------|----------------|
|                                  |              |   |                      | No. 1          |
| 多溴聯苯總和 / Sum of PBBs             | mg/kg        | 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. | —                    | 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.          |
| 多溴聯苯醚總和 / Sum of PBDEs           | mg/kg        |   | —                    | 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.          |

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|---|--------------|---|----------------------|----------------|
|   |              |   |                      | No. 1          |
| 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.          |

## 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)
5. (◆) :

若鉻含量小於六價鉻之方法偵測極限值, 則六價鉻為n. d. , 不須再測試六價鉻。

The result of Cr(VI) is "n.d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required.

若鉻含量未小於六價鉻之方法偵測極限值, 需進行六價鉻測試。

If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.

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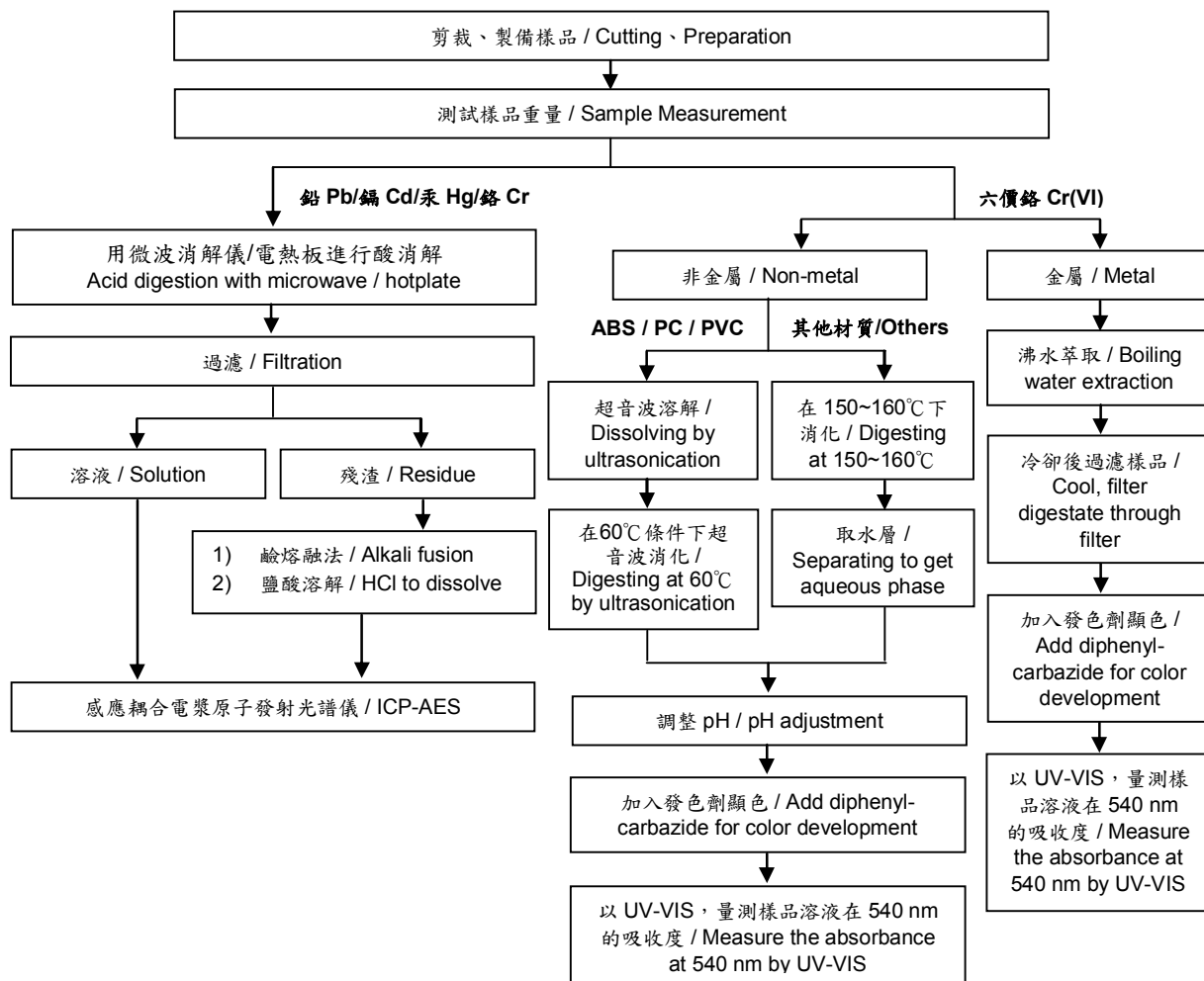


### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



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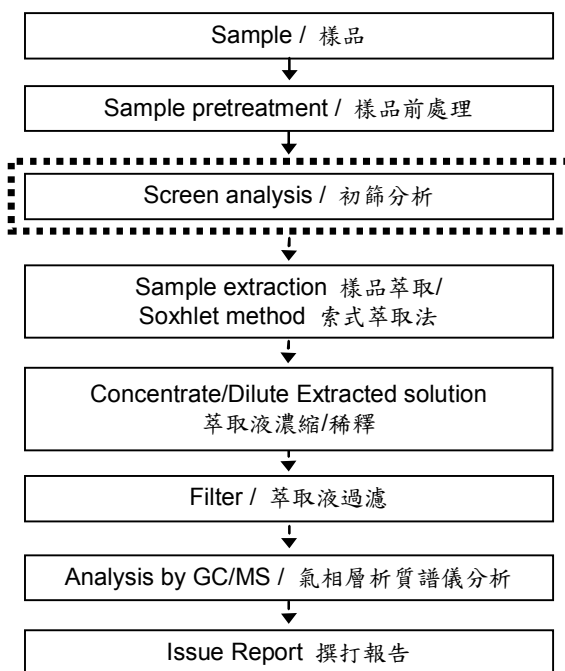
### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

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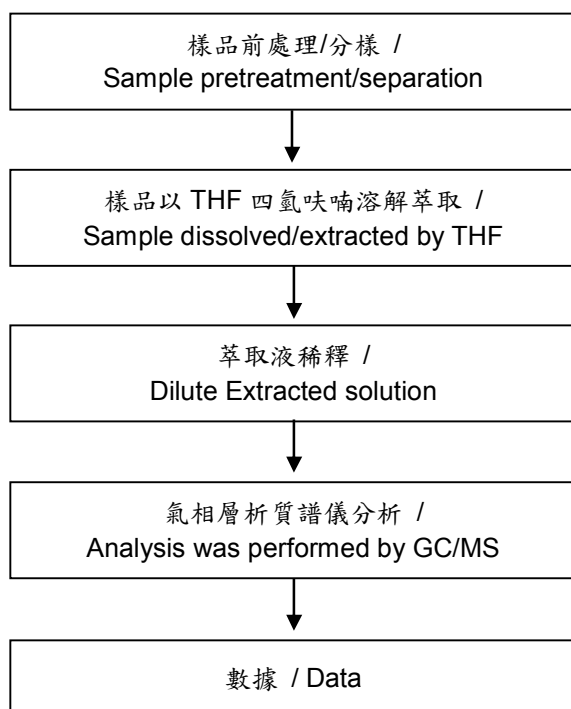
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor : Troy Chang

### **【測試方法/Test method: IEC 62321-8】**



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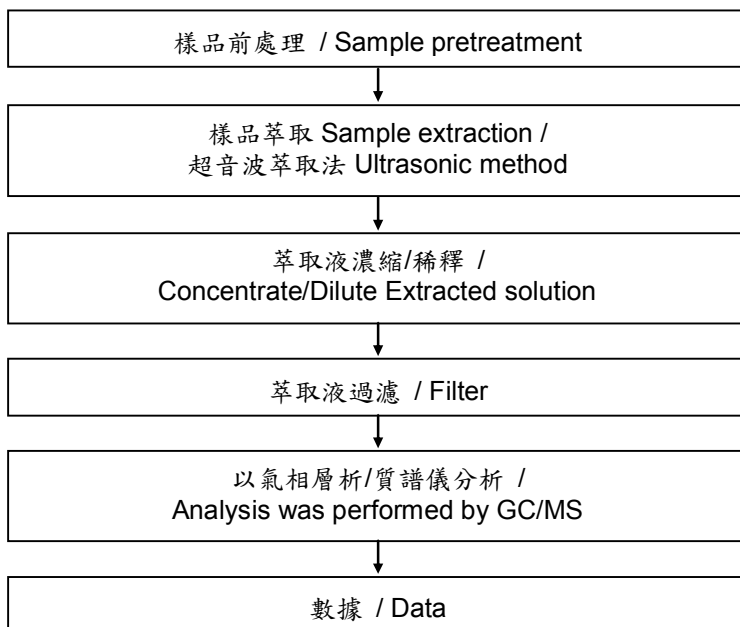
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### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

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



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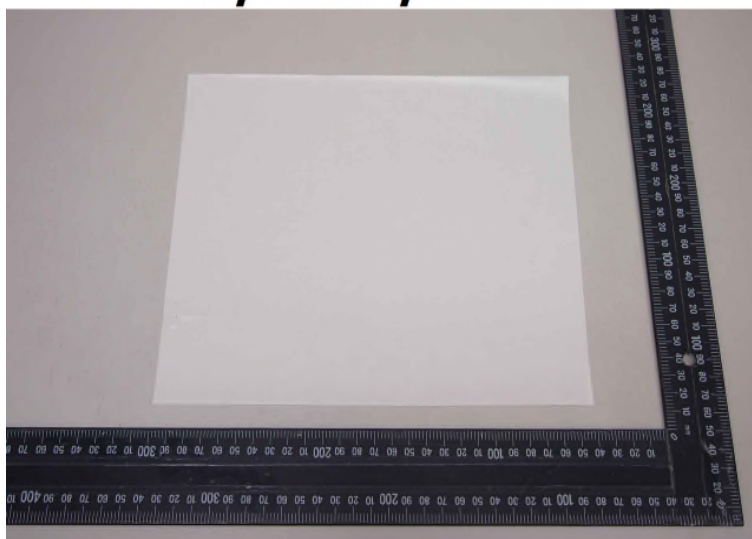
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*  
(The tested sample / part is marked by an arrow if it's shown on the photo.)

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\*\* 報告結尾 (End of Report) \*\*

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