

## 測試報告 Test Report

號碼(No.) : CE/2008/86731A 日期(Date) : 2008/09/03 頁數(Page) : 1 of 8

美商伊士曼化學有限公司台灣分公司

EASTMAN CHEMICAL LTD., TAIWAN BRANCH

台北市北投區北投路二段13號8樓之1


8F-1, NO. 13, SEC. 2, PEI TOU ROAD, PEI TOU 112 TAIPEI, TAIWAN



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : COPOLYESTER  
樣品型號(Style/Item No.) : DN011  
收件日期(Sample Receiving Date) : 2008/08/27  
測試期間(Testing Period) : 2008/08/27 TO 2008/09/03

=====  
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

  
**Chenyu Kung / Operation Manager**  
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 : 混測透明色塑膠粒 (共二款) (MIXED TRANSPARENT PLASTIC PELLETS (2 KINDS))

| 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 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鎘含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.   | 2                    | n.d.           |
| 鉛 / Lead (Pb)   | mg/kg        | 參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.  | 2                    | n.d.           |
| 汞 / Mercury (Hg)  | mg/kg        | 參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.   | 2                    | n.d.           |
| 六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg        | 針對非金屬材質之樣品, 參考IEC 62321/2nd CDV (111/95/CDV) 方法檢測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV-Vis Spectrometry. | 2                    | n.d.           |

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8F-1, NO. 13, SEC. 2, PEI TOU ROAD, PEI TOU 112 TAIPEI, TAIWAN



| 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           |
| 鹵素 / Halogen  | ---          | 參考BS EN 14582:2007, 以離子層析儀分析氟, 氯, 溴, 碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for F, Cl, Br, I content. | ---                  | ---            |
| 鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)  | mg/kg        | 參考BS EN 14582:2007, 以離子層析儀分析氟含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.              | 50                   | n.d.           |
| 鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1) | mg/kg        | 參考BS EN 14582:2007, 以離子層析儀分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.              | 50                   | n.d.           |
| 鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)  | mg/kg        | 參考BS EN 14582:2007, 以離子層析儀分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.               | 50                   | n.d.           |
| 鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)    | mg/kg        | 參考BS EN 14582:2007, 以離子層析儀分析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.                | 50                   | n.d.           |

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台北市北投區北投路二段13號8樓之1

8F-1, NO. 13, SEC. 2, PEI TOU ROAD, PEI TOU 112 TAIPEI, TAIWAN



| 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          |   |      |
| <b>多溴聯苯總和 / Sum of PBBs</b>      | mg/kg        | 參考IEC 62321/2nd CDV<br>(111/95/CDV)方法, 以氣相層析儀<br>/質譜儀檢測多溴聯苯和多溴聯苯<br>醚含量. / With reference to<br>IEC 62321/2nd CDV<br>(111/95/CDV). Determination of<br>PBB and PBDE by GC/MS. | -                    | n.d.           |   |      |
| 一溴聯苯 / Monobromobiphenyl         |              |   | 5                    | n.d.           |   |      |
| 二溴聯苯 / Dibromobiphenyl           |              |   | 5                    | n.d.           |   |      |
| 三溴聯苯 / Tribromobiphenyl          |              |   | 5                    | n.d.           |   |      |
| 四溴聯苯 / Tetrabromobiphenyl        |              |   | 5                    | n.d.           |   |      |
| 五溴聯苯 / Pentabromobiphenyl        |              |   | 5                    | n.d.           |   |      |
| 六溴聯苯 / Hexabromobiphenyl         |              |   | 5                    | n.d.           |   |      |
| 七溴聯苯 / Heptabromobiphenyl        |              |   | 5                    | n.d.           |   |      |
| 八溴聯苯 / Octabromobiphenyl         |              |   | 5                    | n.d.           |   |      |
| 九溴聯苯 / Nonabromobiphenyl         |              |   | 5                    | n.d.           |   |      |
| 十溴聯苯 / Decabromobiphenyl         |              |   | 5                    | n.d.           |   |      |
| <b>多溴聯苯醚總和 / Sum of PBDEs</b>    |              |   |                      |                | - | n.d. |
| 一溴聯苯醚 / Monobromodiphenyl ether  |              |   |                      |                | 5 | n.d. |
| 二溴聯苯醚 / Dibromodiphenyl ether    |              |   |                      |                | 5 | n.d. |
| 三溴聯苯醚 / Tribromodiphenyl ether   |              |   |                      |                | 5 | n.d. |
| 四溴聯苯醚 / Tetrabromodiphenyl ether |              |   |                      |                | 5 | n.d. |
| 五溴聯苯醚 / Pentabromodiphenyl ether |              |   |                      |                | 5 | n.d. |
| 六溴聯苯醚 / Hexabromodiphenyl ether  |              |   |                      |                | 5 | n.d. |
| 七溴聯苯醚 / Heptabromodiphenyl ether |              |   |                      |                | 5 | n.d. |
| 八溴聯苯醚 / Octabromodiphenyl ether  |              |   |                      |                | 5 | n.d. |
| 九溴聯苯醚 / Nonabromodiphenyl ether  |              |   | 5                    | n.d.           |   |      |
| 十溴聯苯醚 / Decabromodiphenyl ether  |              |   | 5                    | n.d.           |   |      |

### 備註(Note) :

1. mg/kg = ppm
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. "---" = Not Conducted (未測項目)
6. 樣品的測試是基於申請人要求混合測試, 報告中的混合測試結果不代表其中個別單一材質的含量。  
(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.  
The above results was/were only given as the informality value.)

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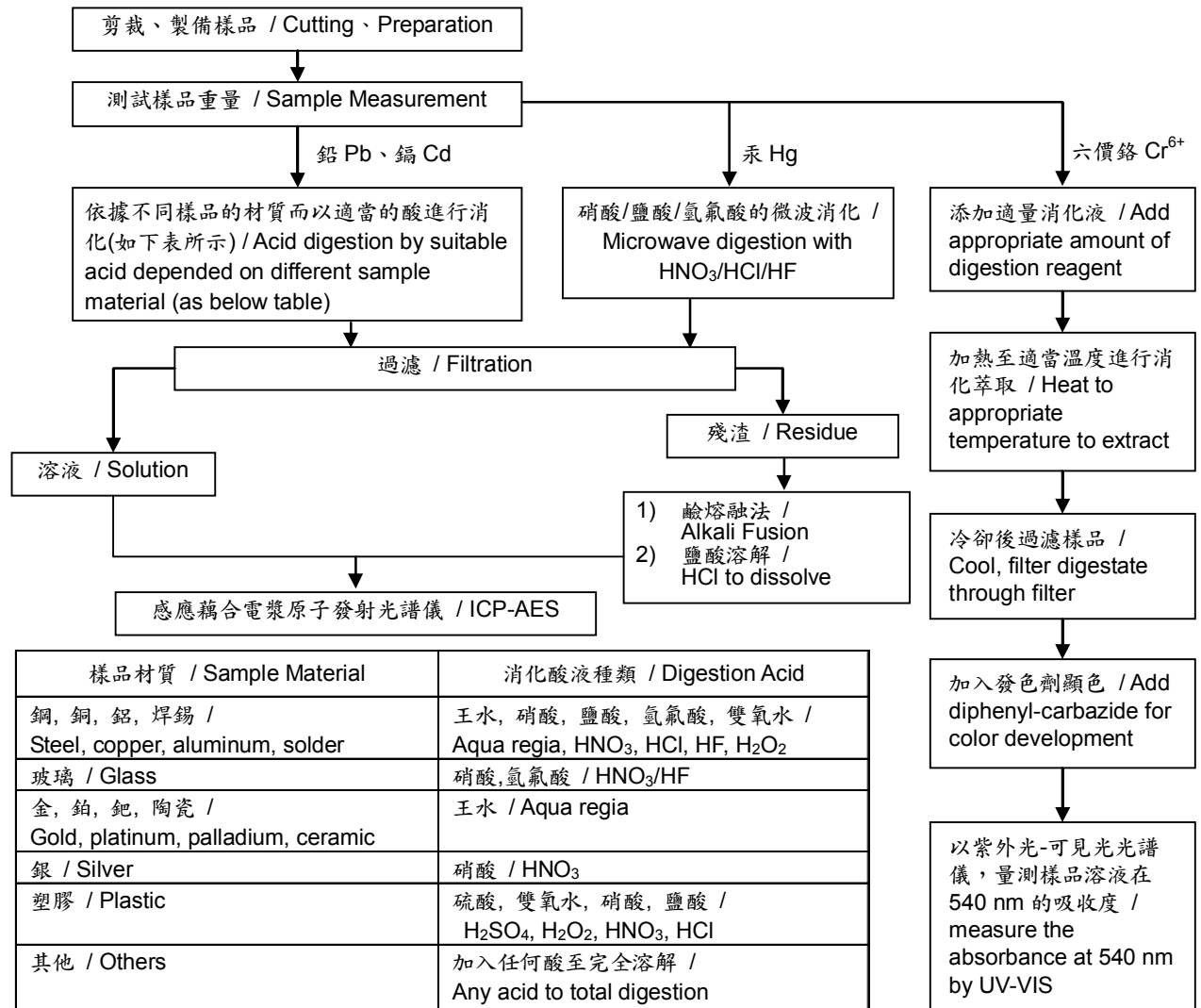
EASTMAN CHEMICAL LTD., TAIWAN BRANCH

台北市北投區北投路二段13號8樓之1

8F-1, NO. 13, SEC. 2, PEI TOU ROAD, PEI TOU 112 TAIPEI, TAIWAN



- 1) 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)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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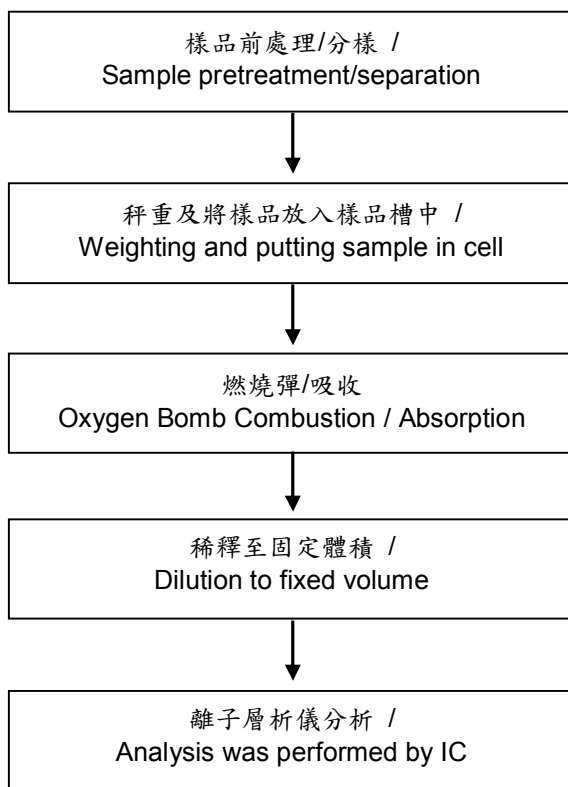
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## 鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：陳立倫 / Name of the person who made measurement: Alan Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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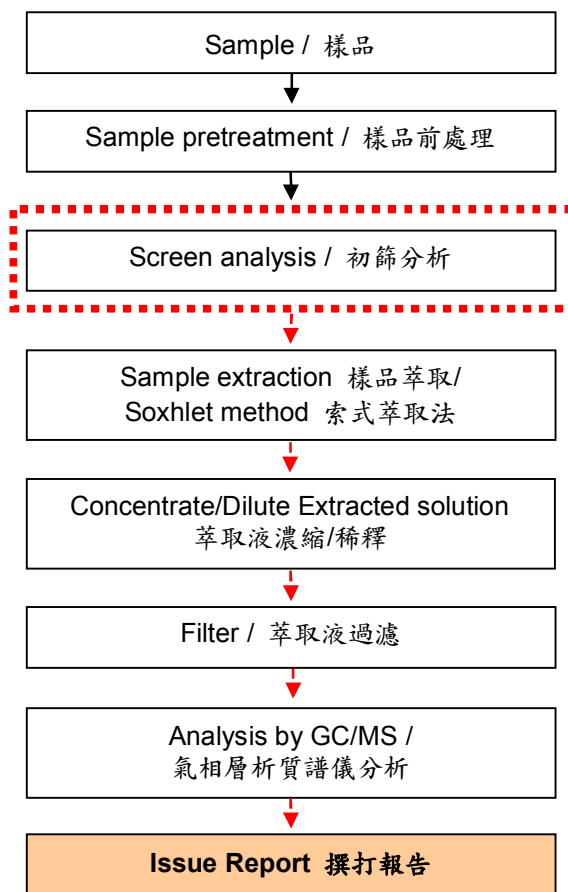
## 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

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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\*\* 報告結尾 \*\*

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