

# 測試報告 Test Report

號碼(No.): CE/2008/30612B

日期(Date): 2008/03/10

頁數(Page): 1 of 6

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) : DRYSTAR (TM) 0603 COPOLYESTER  
收件日期(Sample Receiving Date) : 2008/03/03  
測試期間(Testing Period) : 2008/03/03 TO 2008/03/10

=====  
測試需求(Test Requested) : 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).

測試方法(Test Method) : 參考IEC 62321/2nd CDV (111/95/CDV)方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).

- (1) 用感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
- (2) 用感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
- (3) 用感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
- (4) 針對非金屬材質之樣品，用UV-VIS檢測六價鉻含量. / Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.

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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號碼(No.): CE/2008/30612B

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頁數(Page): 2 of 6

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測試結果(Test Results) 單位(Unit): mg/kg

| 測試項目<br>(Test Items)   | 測試方法<br>Method<br>(Refer to) | 結果 (Result) | 方法偵測<br>極限值<br>(MDL) |
|--|------------------------------|-------------|----------------------|
|  |                              | No.1        |                      |
| 鎘 / Cadmium (Cd)   | (1)                          | n.d.        | 2                    |
| 鉛 / Lead (Pb)  | (2)                          | n.d.        | 2                    |
| 汞 / Mercury (Hg)   | (3)                          | n.d.        | 2                    |
| 六價鉻 / Hexavalent Chromium Cr(VI) by<br>alkaline extraction       | (4)                          | n.d.        | 2                    |
| <b>多溴聯苯總和 / Sum of PBBs</b>                                      | (5)                          | n.d.        | -                    |
| 一溴聯苯 / Monobromobiphenyl   |                              | n.d.        | 5                    |
| 二溴聯苯 / Dibromobiphenyl   |                              | n.d.        | 5                    |
| 三溴聯苯 / Tribromobiphenyl  |                              | n.d.        | 5                    |
| 四溴聯苯 / Tetrabromobiphenyl  |                              | n.d.        | 5                    |
| 五溴聯苯 / Pentabromobiphenyl  |                              | n.d.        | 5                    |
| 六溴聯苯 / Hexabromobiphenyl   |                              | n.d.        | 5                    |
| 七溴聯苯 / Heptabromobiphenyl  |                              | n.d.        | 5                    |
| 八溴聯苯 / Octabromobiphenyl   |                              | n.d.        | 5                    |
| 九溴聯苯 / Nonabromobiphenyl   |                              | n.d.        | 5                    |
| 十溴聯苯 / Decabromobiphenyl   |                              | n.d.        | 5                    |
| <b>多溴聯苯醚總和 (一至九溴) / Sum of<br/>PBDEs (Mono to Nona) (Note 4)</b> |                              | n.d.        | -                    |
| 一溴聯苯醚 / Monobromobiphenyl ether                                  |                              | n.d.        | 5                    |
| 二溴聯苯醚 / Dibromobiphenyl ether                                    |                              | n.d.        | 5                    |
| 三溴聯苯醚 / Tribromobiphenyl ether                                   |                              | n.d.        | 5                    |
| 四溴聯苯醚 / Tetrabromobiphenyl ether                                 |                              | n.d.        | 5                    |
| 五溴聯苯醚 / Pentabromobiphenyl ether                                 |                              | n.d.        | 5                    |
| 六溴聯苯醚 / Hexabromobiphenyl ether                                  |                              | n.d.        | 5                    |
| 七溴聯苯醚 / Heptabromobiphenyl ether                                 |                              | n.d.        | 5                    |
| 八溴聯苯醚 / Octabromobiphenyl ether                                  |                              | n.d.        | 5                    |
| 九溴聯苯醚 / Nonabromobiphenyl ether                                  | n.d.                         | 5           |                      |
| 十溴聯苯醚 / Decabromobiphenyl ether                                  | n.d.                         | 5           |                      |
| <b>多溴聯苯醚總和 (一至十溴) / Sum of<br/>PBDEs (Mono to Deca)</b>          | n.d.                         | -           |                      |

# 測試報告

## Test Report

號碼(No.): CE/2008/30612B

日期(Date): 2008/03/10

頁數(Page): 3 of 6

美商伊士曼化學有限公司台灣分公司

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### 測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 混測透明塑膠粒 (MIXED TRANSPARENT PLASTIC PELLETS)

### 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. 根據2005年10月13日歐盟會議公佈2005/717/EC, 修訂2002/95/EC內容, 通過解除高分子材質中十溴聯苯醚之使用限制. (According to 2005/717/EC DecaBDE is exempt.)
5. "-" = Not Regulated (無規格值)
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).

# 測試報告

## Test Report

號碼(No.): CE/2008/30612B

日期(Date): 2008/03/10

頁數(Page): 4 of 6

美商伊士曼化學有限公司台灣分公司

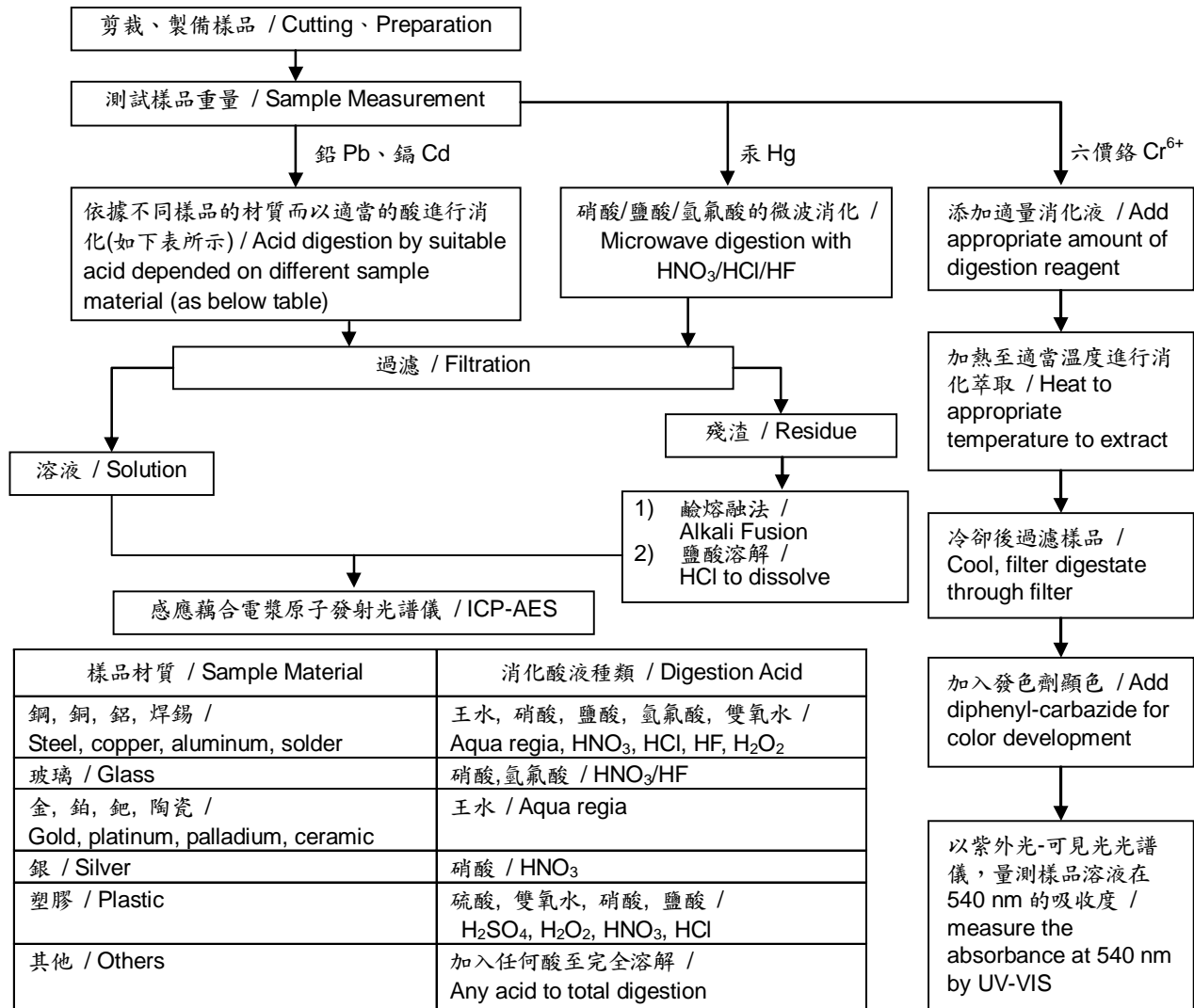
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung



# 測試報告 Test Report

號碼(No.): CE/2008/30612B

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頁數(Page): 5 of 6

美商伊士曼化學有限公司台灣分公司

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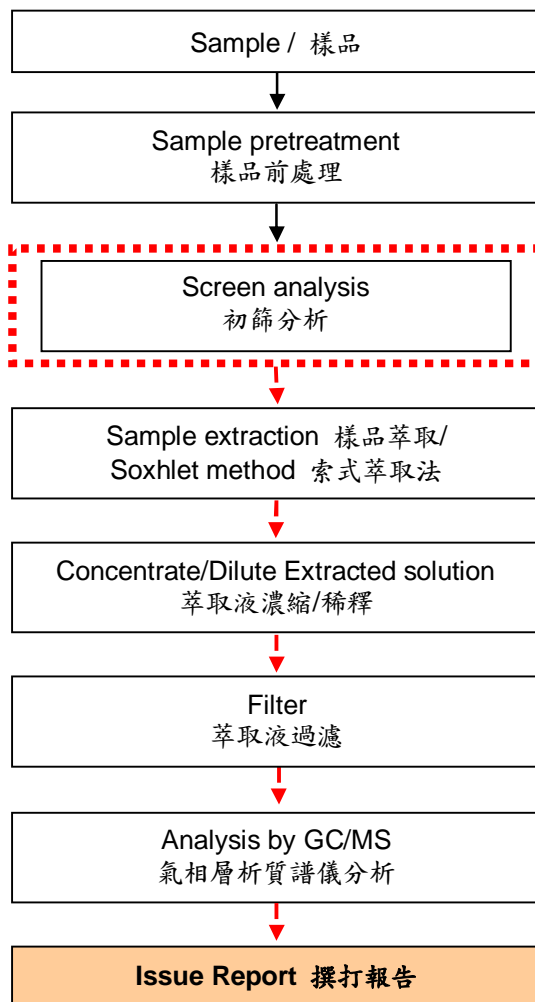


## 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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 \*\*