

測試報告 Test Report

號碼(No.) : CE/2007/80308

日期(Date) : 2007/08/08

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南亞塑膠工業股份有限公司
NAN YA PLASTICS CORPORATION
台北縣樹林市味王街55號
55, WEI WANG ST., SHU LIN, TAIPEI, TAIWAN, R. O. C.




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) : LAMINATE/PREPREG
樣品型號(Style/Item No.) : NPG-R/NPG-TL/NPG-B
收件日期(Sample Receiving Date) : 2007/08/01
測試期間(Testing Period) : 2007/08/01 TO 2007/08/08

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


Daniel Yeh, M.R. / 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 : 黃色薄板 (YELLOW LAMINATE)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) |
|--|--------------|---|----------------------|----------------|
| | | | | NO.1 |
| 鎘 / Cadmium (Cd) | mg/kg | 參考IEC 62321, Ed. 1 111/54/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, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES. | 2 | n.d. |
| 鉛 / Lead (Pb) | mg/kg | 參考IEC 62321, Ed. 1 111/54/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, Ed.1 111/54/CDV. Determination of Lead by ICP- AES. | 2 | n.d. |
| 汞 / Mercury (Hg) | mg/kg | 參考IEC 62321, Ed. 1 111/54/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, Ed.1 111/54/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, Ed. 1 111/54/CDV 方法檢 測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry. | 2 | n.d. |
| 聚氯乙烯 / PVC (CAS No.: 9002-86-2) | % | 聚氯乙烯定性分析, 以紅外線光譜 分析法搭配垂直式全反射配件及熱 裂解氣相層析質譜儀檢測 / Analysis was performed by FTIR/ATR and Pyrolyzer-GC/MS. | 1 | Negative |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) |
|--|--------------|--|----------------------|----------------|
| | | | | NO.1 |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | 參考IEC 62321, Ed. 1 111/54/CDV方法, 以氣相層析儀/ 質譜儀檢測多溴聯苯和多溴聯苯醚 含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of 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. |
| 多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4) | | | - | n.d. |
| 一溴聯苯醚 / Monobromobiphenyl ether | | | 5 | n.d. |
| 二溴聯苯醚 / Dibromobiphenyl ether | | | 5 | n.d. |
| 三溴聯苯醚 / Tribromobiphenyl ether | | | 5 | n.d. |
| 四溴聯苯醚 / Tetrabromobiphenyl ether | | | 5 | n.d. |
| 五溴聯苯醚 / Pentabromobiphenyl ether | | | 5 | n.d. |
| 六溴聯苯醚 / Hexabromobiphenyl ether | | | 5 | n.d. |
| 七溴聯苯醚 / Heptabromobiphenyl ether | | | 5 | n.d. |
| 八溴聯苯醚 / Octabromobiphenyl ether | | | 5 | n.d. |
| 九溴聯苯醚 / Nonabromobiphenyl ether | | | 5 | n.d. |
| 十溴聯苯醚 / Decabromobiphenyl ether | | | 5 | n.d. |
| 多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca) | | | - | 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. 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. Negative = 陰性 (< 1.0 %), Positive = 陽性 (> 1.0 %)

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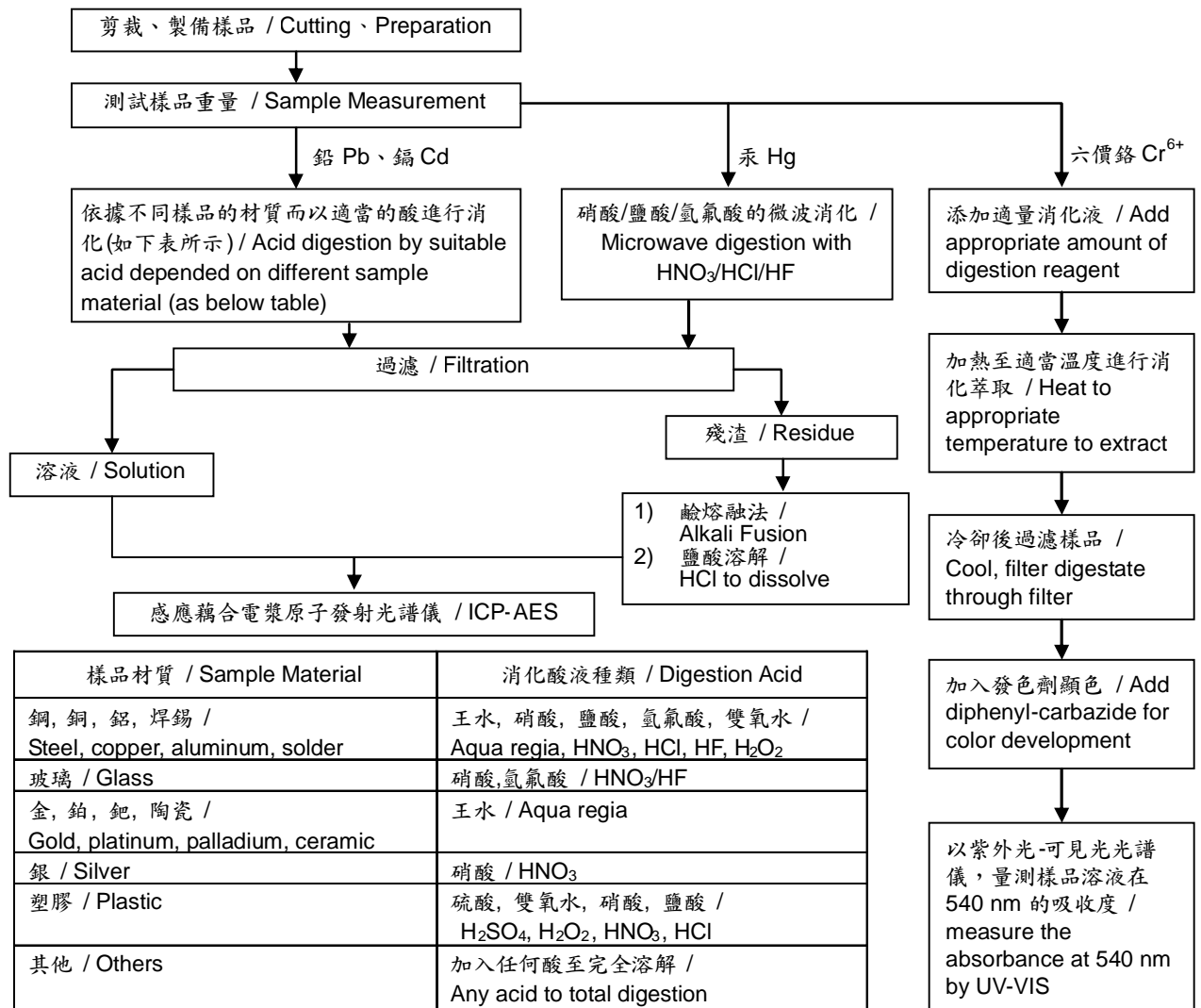
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：葉禮源 / Name of the person in charge of measurement: Daniel Yeh



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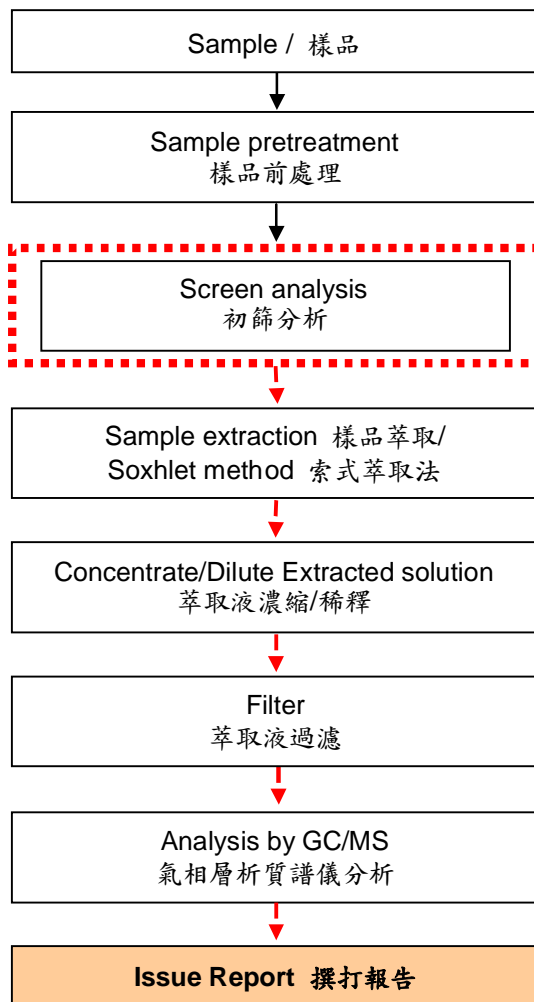


多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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 **