

測試報告

號碼：CE/2010/20927A

日期：2010/02/08

頁數：1 of 6

台灣化學纖維股份有限公司
台北市敦化北路201號



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：

樣品名稱：丙烯腈 / 丁二烯 / 苯乙烯共聚合樹脂
樣品型號：TAIRILAC AG12A0, AG15A1, AG15E0, AG15E1
收件日期：2010/02/03
測試期間：2010/02/03 TO 2010/02/08

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測試結果：請見下一頁。

結論：根據客戶所提供的樣品，其多苯環芳香族化合物的測試結果符合德國ZLS的ZEK 01.2-08及其相關修訂文件中的第1類PAHs要求。

Shin-Jyh Chen
Shin-jyh Chen / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試結果

測試部位 NO.1 : 米色塑膠粒 (AG12A0)
 測試部位 NO.2 : 米色塑膠粒 (AG15A1)
 測試部位 NO.3 : 米色塑膠粒 (AG15E0)
 測試部位 NO.4 : 米色塑膠粒 (AG15E1)

測試項目	單位	測試方法	方法偵測 極限值	結果			
				NO.1	NO.2	NO.3	NO.4
多苯環芳香族化合物 (PAHs)							
Acenaphthene (CAS No.: 000083-32-9)	mg/kg	參考ZLS standard ZEK 01.2-08 方法, 以氣相層析質譜儀 (GC/MS) 檢測.	0.2	n.d.	n.d.	n.d.	n.d.
Acenaphthylene (CAS No.: 000208-96-8)			0.2	n.d.	n.d.	n.d.	n.d.
Anthracene (CAS No.: 000120-12-7)			0.2	n.d.	n.d.	n.d.	n.d.
Benzo[a]anthracene (CAS No.: 000056-55-3)			0.2	n.d.	n.d.	n.d.	n.d.
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.2	n.d.	n.d.	n.d.	n.d.
Benzo[b]fluoranthene (CAS No.: 000205-99-2)			0.2	n.d.	n.d.	n.d.	n.d.
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.2	n.d.	n.d.	n.d.	n.d.
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.2	n.d.	n.d.	n.d.	n.d.
Chrysene (CAS No.: 000218-01-9)			0.2	n.d.	n.d.	n.d.	n.d.
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.2	n.d.	n.d.	n.d.	n.d.
Fluoranthene (CAS No.: 000206-44-0)			0.2	n.d.	n.d.	n.d.	n.d.
Fluorene (CAS No.: 000086-73-7)			0.2	n.d.	n.d.	n.d.	n.d.
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.2	n.d.	n.d.	n.d.	n.d.
Naphthalene (CAS No.: 000091-20-3)			0.2	n.d.	n.d.	n.d.	n.d.
Phenanthrene (CAS No.: 000085-01-8)			0.2	n.d.	n.d.	n.d.	n.d.
Pyrene (CAS No.: 000129-00-0)			0.2	n.d.	n.d.	n.d.	n.d.
多苯環芳香族化合物16項總和	-			n.d.	n.d.	n.d.	n.d.

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備註：

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

參考資料：

依據ZEK 01.2-08之要求：產品中最大值為

項目	第1類	第2類	第3類
	與食品接觸或放入嘴內的材料，以及給三歲以下的幼兒使用的玩具。	持續地(長時間)與皮膚接觸逾30秒，以及不屬第1類的玩具。	暫時地(短時間)與皮膚接觸但不逾30秒或不會與皮膚接觸。
苯駢(a)芘 Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
環保署規範16項PAH 總濃度 (mg/kg)*	<MDL (<0.2)**	10	200

注意：* = PAH濃度大於0.2mg/kg時，則須計算PAH總濃度值

** = 最大濃度值超出等級一的限制，但在等級二的濃度限制值內時，可能需要確認測試材質是否合適於食品容器或是依照DIN EN1186ff/ § 64 LFGB 80.30-1方法，針對特定PAH的遷移測試進行測試。遷移測試的結論需依照食品法規規範

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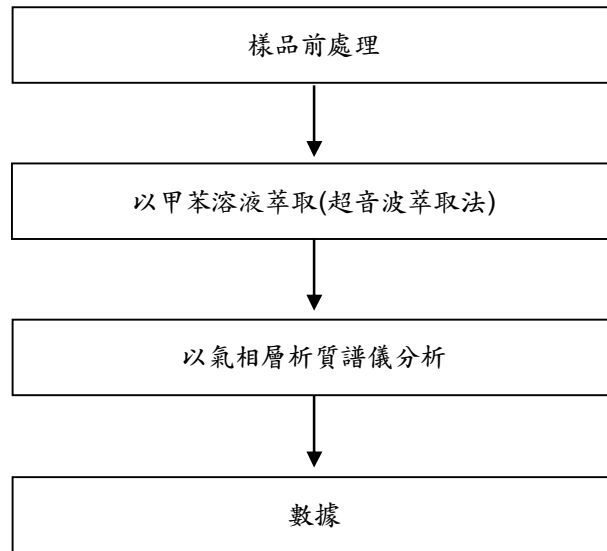
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多苯環芳香族化合物分析流程圖

- 1) 測試人員：徐毓明
- 2) 測試負責人：陳新智



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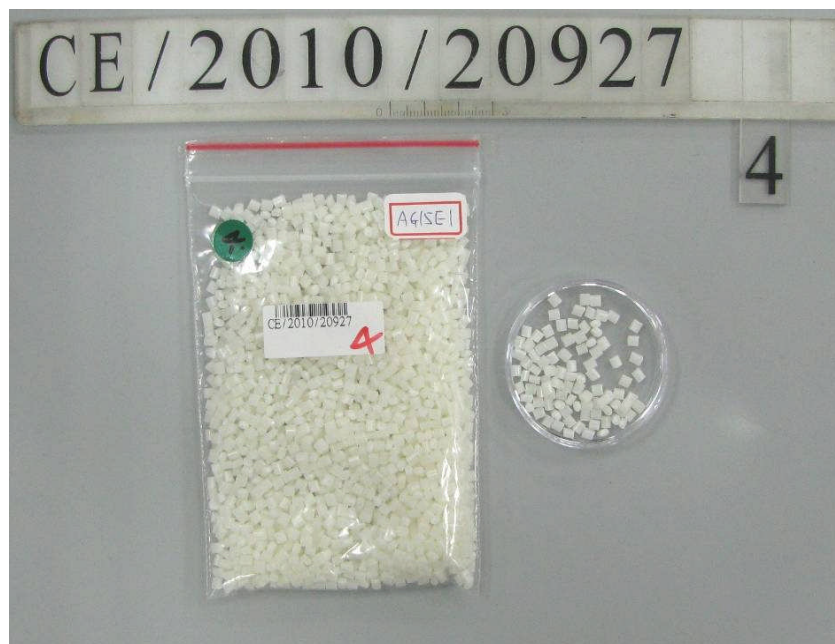
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** 報告結尾 **

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