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

樣品名稱(Sample Description)	:	無規共聚物聚丙烯(POLYPROPYLENE RANDOM COPOLYMER)
樣品型號(Style/Item No.)	:	5003,5018,5018T,5020,5050,5050M,5060,5060T,5070,5071,5070M,5090T
		5200,5250T,5350T
樣品顏色(Color)	:	白色半透明 (CLEAR)
收件日期(Sample Receiving Date)	:	2010/04/09
測試期間(Testing Period)	:	2010/04/09 TO 2010/04/15

測試需求(Test Requested)	:	參照多苯環芳香族化合物及其修定指令要求.(To determine Polynuclear Aromatic Hydrocarbons (PAHs).)
測試結果(Test Results)	:	請見下一頁 (Please refer to next pages).
結論(Conclusion)	:	根據客户所提供的樣品,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 (Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category X) of ZEK 01.2-08 of German ZLS and its amendments.)

Ray Chang / Asst. Manager Signed for and on behalf of SGS Taiwan Limited

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<u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1 : 白色半透明無規共聚物聚丙烯 (CLEAR POLYPROPYLENE RANDOM COPOLYMER)

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

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項目 (Parameter) 第1類 (Category 1) 第2類 (Category 2) 第3類 (Category 3) 與食品接觸或放入嘴内的 持續地(長時間)與皮膚接 暫時地(短時間)與皮膚接 觸逾30秒,以及不屬第1 觸但不逾30秒或不會與 材料,以及給三歲以下的 幼兒使用的玩具. 類的玩具. 皮膚接觸. (Materials in contact (Materials with (Materials with with foodstuff or foreseeable skin foreseeable skin materials which are contact >30 s contact <30 s (short time skin contact) or meant to put in the (prolonged skin mouth as well as toys without skin contact.) contact) and toys not for children <36 covered by category 1.) months.) 苯駢(a) <MDL (<0.2)** 1 20 Benzo[a]pyrene (mg/kg) 環保署規範16項PAH 總濃度 (Sum of 16 <MDL (<0.2)** 200 10 EPA-PAH) (mg/kg)*

注意(Remark): * = PAH濃度大於0.2mg/kg時,則須計算PAH總濃度值

(Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs) ** = 最大濃度值超出等級一的限制,但在等級二的濃度限制值内時,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

(In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and \S 64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.)

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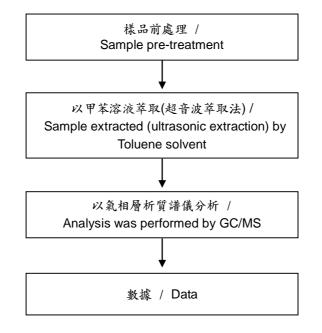
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多苯環芳香族化合物分析流程圖 / PAHs (Poly Aromatic Hydrocarbons) analytical flow chart

1) 測試人員:曹嘉琪 / Name of the person who made measurement: Anson Tsao

2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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** 報告結尾(End of Report) **

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