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砂卡有限公司 SICAN CO., LTD. 桃園縣蘆竹郷坑口村17鄰大有街9巷12號 NO. 12, LANE 9, TA YU ST., KUN KO TSUN, LU CHU HSIANG, TAOYUAN, TAIWAN

以下測試樣品係由申請廠商所提供及確認 behalf of the applicant as):		(The following sample(s) was/were submitted and identified by/on
送樣廠商(Sample Submitted By)	:	矽卡有限公司 (SICAN CO., LTD.)
		SOLAR WINDOW FILM
樣品型號(Style/Item No.)	:	BK05
收件日期(Sample Receiving Date)	:	2013/4/22
測試期間(Testing Period)	:	2013/4/22 TO 2013/4/25
=====================================	(PAHs	====================================
測試結果(Test Results) :	請見	下一頁 (Please refer to next pages).
結論(Conclusion) :	其相 samp]	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 01.4-08及 關修訂文件中的第1類PAHs要求 (Base upon the performed tests by submitted .es, the test results of PAHs comply with the PAHs requirement according Category 1) of ZEK 01.4-08 of German ZLS and its amendments.)



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測試結果(Test Results)

測試部位(PART NAME) No.1

透明黑色薄膜及其上膠 (不含離型膜) (TRANSPARENT-BLACK FILM WITH ADHESIVE : (EXCLUDING THE RELEASE FILM))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
多苯環芳香族化合物 / Polynuclear Aromatic				
Hydrocarbons (PAHs)				
苊 / Acenaphthene (CAS No.: 83-32-9)			0.2	n.d.
苊烯 / Acenaphthylene (CAS No.: 208-96-8)			0.2	n.d.
蒽 / Anthracene (CAS No.: 120-12-7)			0.2	n.d.
苯聠蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)			0.2	n.d.
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8)			0.2	n.d.
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)			0.2	n.d.
苯駢芘 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)			0.2	n.d.
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)		参考ZLS standard ZEK 01.4-08	0.2	n.d.
Chrysene (CAS No.: 218-01-9)		方法,以氣相層析/質譜儀檢測.	0.2	n.d.
ニ苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53–70–3)	mg/kg	/ With reference to ZLS standard ZEK 01.4-08 method.	0.2	n.d.
苯駢芴 / Fluoranthene (CAS No.: 206-44-0)		Analysis was performed by	0.2	n.d.
芴 / Fluorene (CAS No.: 86-73-7)		GC/MS.	0.2	n.d.
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)			0.2	n.d.
萘 / Naphthalene (CAS No.: 91-20-3)			0.2	n.d.
菲 / Phenanthrene (CAS No.: 85-01-8)			0.2	n.d.
芘 / Pyrene (CAS No.: 129-00-0)			0.2	n.d.
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)			0.2	n.d.
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)			0.2	n.d.
多苯環芳香族化合物18項總和 / Sum of 18 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 (無規格值)

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<u> 参考資料(Reference information) :</u>

依據ZEK 01.4-08之要求:產品中最大值為

(Requirement of ZEK 01.4-08 : Restraining maximum values for products)

項目 (Parameter)	第1類(Category 1)	第2類(Category 2)	第3類 (Category 3)
	意圖放入嘴内的材料或與	可預見與皮膚接觸逾30秒	可預見與皮膚接觸短於30
	36個月以下的幼兒皮膚有	(長期與皮膚接觸),以及	秒(短期與皮膚接觸),以
	所接觸的玩具.	不屬於第1類的材料.	及不屬於第1類或第2類的
	(Material indented to	(Materials not falling	材料.(Materials not
	be put in the mouth or	under category 1 with	falling under category
	toys for children aged	foreseeable contact to	1 or 2 with
	< 36 months with	skin for longer than	foreseeable contact to
	intended skin	30 seconds (long-term	skin for less than 30
	contact.)	skin contact).)	seconds (short-term
			skin contact).)
苯駢(a)芘 Benzo[a]pyrene (mg/kg)	<mdl (<0.2)**<="" td=""><td>1</td><td>20</td></mdl>	1	20
18項PAH總濃度			
(Sum of 18 PAH)	<mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl>	10	200
(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內時,可能需要確認測試材質是否適用於與食品或與口腔黏膜 接觸,並依照EN 1186 ff. and § 64 LFBG 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 食品規範評估。

(If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.)

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

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾(End of Report) **

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