

測試報告

號碼：CY/2010/40608C

日期：2010/04/29

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台灣勵遠股份有限公司
台北市南京東路五段212號7樓



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：鋁箔
樣品型號：#H1225PY4A
生產或供應廠商：台灣勵遠股份有限公司
原產國：台灣
收件日期：2010/04/09
測試期間：2010/04/09 TO 2010/04/19

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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。

James Lu.

James Lu / Supervisor

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 : 銀/白/紅色鋁箔

測試項目	單位	測試方法	方法偵測 極限值	結果
				NO.1
壬酚 (NP) (CAS No.: 025154-52-3)	mg/kg	參考US EPA 3550C方法, 以氣相層析/質譜儀(GC/MS)分析.	10	n.d.
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.
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)			0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.2	n.d.
Chrysene (CAS No.: 000218-01-9)			0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.2	n.d.
Fluoranthene (CAS No.: 000206-44-0)			0.2	n.d.
Fluorene (CAS No.: 000086-73-7)			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	-			n.d.
可塑劑定量分析				
鄰苯二甲酸甲苯基丁酯 (BBP) (CAS No.: 000085-68-7)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之.	0.003	n.d.
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (CAS No.: 000117-81-7)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之.	0.003	n.d.
鄰苯二甲酸二異癸酯 (DIDP) (CAS No.: 026761-40-0)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之.	0.01	n.d.
鄰苯二甲酸二異壬酯 (DINP) (CAS No.: 028553-12-0)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之.	0.01	n.d.

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測試項目	單位	測試方法	方法偵測 極限值	結果
				NO.1
鄰苯二甲酸二正辛酯 (DNOP) (CAS No.: 000117-84-0)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之.	0.003	n.d.
鄰苯二甲酸二丁酯 (DBP) (CAS No.: 000084-74-2)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之.	0.003	n.d.

- 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
 5. 依據2005/84/EC所公布76/769/EEC指令之第22次修正會議提及，3種可塑劑DEHP，DBP與BBP之總含量不可大於0.1%，另3種可塑劑DINP，DIDP及DNOP之總含量亦不可大於0.1%。

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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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** 報告結尾 **

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