

## 測試報告

號碼：CY/2012/42033A

日期：2012/05/03

頁數：1 of 4

福爾福創意工作坊  
台北市康定路278巷3號4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：折折杯  
 樣品型號：FOFOCUP折折杯 8oz/ 16oz/ 20oz  
 樣品材質：PP (POLYPROPYLENE)  
 生產或供應廠商：福爾福創意工作坊  
 原產國：台灣  
 收件日期：2012/04/23  
 測試期間：2012/04/23 TO 2012/05/03

=====  
 測試需求：依據Commission Regulation 2011年1月14日(EU) No 10/2011及European Regulation No. 1935/2004 Article 3.

測試方法：請見下一頁。

測試結果：請見下一頁。

總結：

(1) 塑膠 - 重金屬特定遷移量	通過
(2) 塑膠 - 可塑劑含量	通過
(3) 塑膠 - "10%酒精, 3%醋酸, 橄欖油" 總遷移量	通過
(4) 雙酚A特殊遷移	通過
(5) 可塑劑特殊遷移	通過

  
 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 : 白色塑膠杯 (16oz)

#### (1) 塑膠 - 重金屬特定遷移量

通過

測試項目	單位	測試方法	方法偵測 極限值	結果	限值
				No.1	
銀	mg/kg	參照Commission Regulation 2011年1月14日(EU) No 10/2011的附錄三及附錄五的條件選擇, 以及EN 13130-1: 2004方法選擇, 在10%的酒精中持溫100°C處理24小時的樣品製備, 以感應耦合電漿原子發射光譜法分析。	0.25	n.d.	1
鈷	mg/kg		0.01	n.d.	0.05
銅	mg/kg		0.25	n.d.	5
鐵	mg/kg		0.25	n.d.	48
鋰	mg/kg		0.5	n.d.	0.6
錳	mg/kg		0.25	n.d.	0.6
鋅	mg/kg		0.5	n.d.	25

#### (2) 塑膠 - 可塑劑含量

通過

測試項目	單位	測試方法	方法偵測 極限值	結果	限值
				No.1	
鄰苯二甲酸甲苯基丁酯 (BBP) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀(GC/MS)檢測。	0.003	n.d.	0.1
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (CAS No.: 117-81-7)	%		0.003	n.d.	0.1
鄰苯二甲酸二異癸酯 (DIDP) (CAS No.: 26761-40-0)	%		0.01	n.d.	0.1
鄰苯二甲酸二異壬酯 (DINP) (CAS No.: 28553-12-0)	%		0.01	n.d.	0.1
鄰苯二甲酸二丁酯 (DBP) (CAS No.: 84-74-2)	%		0.003	n.d.	0.05

#### (3) 塑膠 - "10%酒精, 3%醋酸, 橄欖油" 總遷移量

通過

模擬液	單位	測試方法	方法偵測 極限值	結果	限值
				No.1	
10%酒精	mg/dm <sup>2</sup>	參照Commission Regulation 2011年1月14日(EU) No 10/2011的附錄三及附錄五的條件選擇, 以及EN 1186-1:2002方法選擇。	3.0	n.d.	10
3%醋酸	mg/dm <sup>2</sup>		3.0	n.d.	10
橄欖油	mg/dm <sup>2</sup>		3.0	4.6	10

#### Remark:

- 測試條件及模擬液是由客戶指定: 100°C, 4小時或迴流
- 水性食物模擬液的分析容許誤差值為 1 mg/dm<sup>2</sup>.
- 油脂類食物模擬液的分析容許誤差值為 3 mg/dm<sup>2</sup>.

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### (4) 雙酚A特殊遷移

通過

測試項目	單位	測試方法	方法偵測 極限值	結果	限值
				No.1	
雙酚 A 特殊遷移	mg/kg	參照Commission Regulation 2011年1月14日(EU) No 10/2011的附錄三及附錄五的條件選擇，以及EN13130-1:2004方法選擇，在10%酒精中持溫100°C處理24小時的樣品製備，使用LC/MS/MS分析。	0.2	n.d.	0.6

### (5) 可塑劑特殊遷移

通過

測試項目	單位	測試方法	方法偵測 極限值	結果	限值
				No.1	
鄰苯二甲酸甲苯基丁酯 (BBP) (CAS No.: 85-68-7)	mg/kg	參照Commission Regulation 2011年1月14日(EU) No 10/2011的附錄三及附錄五的條件選擇，以及EN13130-1:2004方法選擇，在10%酒精中持溫100°C處理24小時的樣品製備，使用液相層析串聯式質譜儀(LC/MS/MS)分析。	0.05	n.d.	30
鄰苯二甲酸二丁酯 (DBP) (CAS No.: 84-74-2)	mg/kg		0.05	n.d.	0.3
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (CAS No.: 117-81-7)	mg/kg		0.05	n.d.	1.5
鄰苯二甲酸二異癸酯 (DIDP) (CAS No.: 26761-40-0)	mg/kg		0.05	n.d.	9 (DIDP+ DINP)
鄰苯二甲酸二異壬酯 (DINP) (CAS No.: 28553-12-0)	mg/kg		0.05	n.d.	
鄰苯二甲酸二烯丙酯 (DAP) (CAS No.: 131-17-9)	mg/kg		0.01	n.d.	0.01

#### 備註：

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. mg/dm<sup>2</sup> = milligram per square decimeter
3. n.d. = Not Detected / 未檢出
4. MDL = Method Detection Limit / 方法偵測極限值
5. 測試條件及模擬液是由客戶指定。
6. 此測試是參照Commission Regulation 2011年1月14日(EU) No 10/2011的附錄五中所提及重複使用的成品所做的測試。
7. 限值是根據Commission Regulation 2011年1月14日(EU) No 10/2011。

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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。 \*

### CY/2012/42033



\*\* 報告結尾 \*\*

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