

## 測試報告 Test Report

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昌揚塑膠股份有限公司

CHANG YOUNG PLASTICS CO., LTD.

台南市南區新樂路42-3號B棟

B BLDG., NO. 42-3, SINLE ROAD, TAINAN CITY, TAIWAN



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 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description) : 塑膠製休閒杯 (壓克力PMMA) PLASTIC CUP  
樣品材質(Sample Material) : POLY (METHYL METHACRYLATE) RESIN  
原產國(Country of Origin) : 台灣 (TAIWAN)  
收件日期(Sample Receiving Date) : 2011/06/09  
測試期間(Testing Period) : 2011/06/09 TO 2011/06/20

=====  
測試需求(Test Requested) : (1) 依據客戶指定，參考中華民國食品器具容器包裝衛生標準(99.11.22署授食字第0991303265號令修正)進行以下測試： / As specified by client, selected parts of the submitted sample(s) according to Sanitation Standard for Food Utensils, Containers and Packages (DOH Food No. 0991303265 was amended on 2010/11/22) were testing with the following items:  
- 溶出測試 / Migration test : 高錳酸鉀消耗量 / Potassium permanganate consumption、重金屬(以鉛計) / Heavy metal (as Pb)、蒸發殘渣 / Evaporation residue、鄰苯二甲酸2-乙基己基酯 / DEHP (Di- (2-ethylhexyl) phthalate)、鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate)、甲基丙烯酸甲酯單體 / MMA.

(2) 其它 (Others)

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) : (1) 根據客戶所提供的樣品，其測試結果符合中華民國食品器具容器包裝衛生標準(99.11.22署授食字第0991303265號令修正)。 / Based upon the performed tests on submitted samples, the test results comply with the limits of Requirements of Sanitation Standard for Food Utensils, Containers and Packages (DOH Food No. 0991303265 Amended and Appended, 2010/11/22).

  
James Lu / Supervisor  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory – Taipei

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### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 透明藍色塑膠瓶 (內部) (TRANSPARENT BLUE PLASTIC (INSIDE))

(1)

通過(PASS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1	法規 限值 (Limit)
高錳酸鉀消耗量 (水, 95°C, 30分鐘) / Potassium permanganate consumption (water, 95°C, 30 min)	mg/L	參考食品器具、容器、包裝檢驗方法-聚 甲基丙烯酸甲酯(PMMA)之檢驗(93年5月 署授食字第0939311138號修訂). / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Polymethylmethacrylate (PMMA) (DOH Food No. 0939311138 Amended and Appended, May 2004).	1	4.6	10
重金屬(以鉛計) (4%醋酸, 95°C, 30分鐘) / Heavy metal (Pb) (4% Acetic acid, 95°C, 30 min)	mg/L		1	Negative	1
蒸發殘渣 (水, 95°C, 30分鐘) / Evaporation residue (water, 95°C, 30min)	mg/L		1	7.0	30
蒸發殘渣 (4%醋酸, 95°C, 30分鐘) / Evaporation residue (4% acetic acid, 95°C, 30 min)	mg/L		1	7.0	30
蒸發殘渣 (正庚烷, 25°C, 1小時) / Evaporation residue (n-Heptane, 25°C, 1 hour)	mg/L		1	10.0	30
蒸發殘渣 (20%酒精, 60°C, 30分鐘) / Evaporation residue (20% alcohol, 60°C, 30min)	mg/L		1	14.0	30
甲基丙烯酸甲酯單體 (20%酒精, 60°C, 30 分鐘) / MMA (20% alcohol, 60°C, 30min)	mg/L		5	n.d.	15
鄰苯二甲酸2-乙基己基酯 (正庚烷, 25°C, 1小時) / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n- Heptane, 25°C, 1 hour)	mg/L		參考食品器具、容器、包裝檢驗方法-塑 膠類之檢驗修正草案(署授食字第 1001901064號), 以氣相層析/質譜儀檢 測. / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Plastics (DOH Food No. 1001901064). Analysis was performed by GC/MS.	0.05	n.d.
鄰苯二甲酸二丁酯 (正庚烷, 25°C, 1小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 hour)	mg/L	0.05		n.d.	0.3

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(2)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1	法規 限值 (Limit)
鄰苯二甲酸二異壬酯 (正庚烷, 25°C, 1小時) / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0) (n-Heptane, 25°C, 1 hour)	mg/L	參考食品器具、容器、包裝檢驗方法-塑膠類之檢驗修正草案(署授食字第1001901064號), 以氣相層析/質譜儀檢測。 / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Plastics (DOH Food No. 1001901064). Analysis was performed by GC/MS.	0.5	n.d.	-
鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小時) / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0) (n-Heptane, 25°C, 1 hour)	mg/L		0.5	n.d.	-
鄰苯二甲酸丁基苯酯 (正庚烷, 25°C, 1小時) / BBP (butyl benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hour)	mg/L		0.05	n.d.	-
鄰苯二甲酸二辛酯 (正庚烷, 25°C, 1小時) / DOP (Dioctyl phthalate) (CAS No.: 117-84-0) (n-Heptane, 25°C, 1 hour)	mg/L		0.05	n.d.	-

### 備註(Note) :

- 0.1wt% = 1000ppm ; mg/kg = ppm ; mg/L = ppm
- MDL = Method Detection Limit (方法偵測極限值)
- n.d. = Not Detected (未檢出)
- "-" = Not Regulated (無規格值)
- Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)

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\*\* 報告結尾 \*\*

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