

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.

臺南市新樂路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) : PLASTIC SPORTS BOTTLE (塑膠製休閒壺(PC))
 樣品材質(Sample Material) : POLYCARBONATE RESIN
 原產國(Country of Origin) : 台灣 (TAIWAN)
 收件日期(Sample Receiving Date) : 2012/03/02
 測試期間(Testing Period) : 2012/03/02 TO 2012/03/12

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:

材質測試 / Migration test : 鉛 / Lead、鎘 / Cadmium.

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)、雙酚A / Bisphenol A、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).

(2) 溶出測試 / Migration test : 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate)、鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate)、鄰苯二甲酸丁基苯酯 / BBP (butyl benzyl phthalate)、鄰苯二甲酸二辛酯 / DOP (Dioctyl phthalate).

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 : 透明塑膠瓶 (TRANSPARENT PLASTIC BOTTLE)

(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)	法規 限值 (Limit)
				No.1	
鉛 / Lead (Pb)	ppm	參考食品器具、容器、包裝檢驗方法-塑膠類之檢驗(100年7月14日署授食字第1001902289號修正), 以ICP-AES分析. / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Plastics (DOH Food No. 1001902289 Amended and Appended, July 2011). Analysis was performance by ICP-AES.	5	n.d.	100
鎘 / Cadmium (Cd)	ppm		0.5	n.d.	100
高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)	ppm	參考食品器具、容器、包裝檢驗方法-塑膠類之檢驗(100年7月14日署授食字第1001902289號修正). / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Plastics (DOH Food No. 1001902289 Amended and Appended, July 2011).	3	n.d.	10
重金屬(以鉛計)-(4%醋酸, 60°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 60°C, 30 min)	ppm		1	Negative	1
雙酚A-(水, 95°C, 30分鐘) / Bisphenol A -(water, 95°C, 30 min)	ppm	參考食品器具、容器、包裝檢驗方法-聚碳酸酯(PC)塑膠類嬰兒奶瓶除外之檢驗(100年6月22日署授食字第1001901969號公告), 以HPLC/FLD分析. / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Polycarbonate (PC) (except Baby Bottles) (DOH Food No. 1001901969 announced, June 22, 2011). Analysis was performance by HPLC/FLD.	0.0005	n.d.	0.6
雙酚A-(4%醋酸, 60°C, 30分鐘) / Bisphenol A -(4% acetic acid, 60°C, 30 min)	ppm		0.0005	n.d.	0.6

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

(1)

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)
蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)	ppm	參考食品器具、容器、包裝檢驗方法-聚碳酸酯(PC)塑膠類嬰兒奶瓶除外之檢驗(100年6月22日署授食字第1001901969號公告)。 / With reference to Sanitation Standard for Food	10	n.d.	30
蒸發殘渣-(4%醋酸, 60°C, 30分鐘) / Evaporation residue-(4% acetic acid, 60°C, 30 min)	ppm	Utensils, Containers and Packages-Polycarbonate (PC) (except Baby Bottles) (DOH Food No. 1001901969 announced, June 22, 2011).	10	n.d.	30
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)	ppm	參考食品器具、容器、包裝檢驗方法-塑膠類之檢驗(100年7月14日署授食字第1001902289號修正), 以氣相層析/質譜儀檢測。 / With reference to Sanitation Standard for Food	0.05	n.d.	1.5
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)	ppm	Utensils, Containers and Packages-Plastics (DOH Food No. 1001902289). Analysis was performed by GC/MS.	0.05	n.d.	0.3

(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)	ppm	參考食品器具、容器、包裝檢驗方法-塑膠類之檢驗(100年7月14日署授食字第1001902289號修正), 以氣相層析/質譜儀檢測。 / With reference to Sanitation Standard for Food	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)	ppm	Utensils, Containers and Packages-Plastics (DOH Food No. 1001902289). Analysis was performed by GC/MS.	0.5	n.d.	-

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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)	法規 限值 (Limit)
			No.1		
鄰苯二甲酸丁基苯酯（正庚烷，25℃，1小時） / BBP (butyl benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25℃, 1 hour)	ppm	參考食品器具、容器、包裝檢驗方法-塑膠類之檢驗(100年7月14日署授食字第1001902289號修正)，以氣相層析/質譜儀檢測。 / With reference to	0.05	n.d.	-
鄰苯二甲酸二辛酯（正庚烷，25℃，1小時） / DOP (Dioctyl phthalate) (CAS No.: 117-84-0) (n-Heptane, 25℃, 1 hour)	ppm	Sanitation Standard for Food Utensils, Containers and Packages-Plastics (DOH Food No. 1001902289). Analysis was performed by GC/MS.	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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* 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.)

CY/2012/30129



SGSY12301290101

** 報告結尾 **

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