

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)	: 塑膠製保溫杯內胆 (PC+PMMA) (PLASTIC INNER BODY)
樣品材質(Sample Material)	: POLYCARBONATE RESIN+POLY(METHYL METHACRYLATE)RESIN
原產國(Country of Origin)	: 台灣 (TAIWAN)
收件日期(Sample Receiving Date)	: 2011/06/07
測試期間(Testing Period)	: 2011/06/07 TO 2011/06/16

=====
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、雙酚A / Bisphenol A、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) 其它 (Others)

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


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 : 白色塑膠 (內部) (WHITE PLASTIC (INSIDE))

(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)
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 碳酸酯(PC)塑膠類嬰兒奶瓶除外之檢驗 (99年4月6日署授食字第0991900983號公 告). / With reference to Sanitation Standard for Food Utensils, Containers and Packages- Polycarbonate (PC) (except Baby Bottles) (DOH Food No. 0991900983 announced, April 6, 2010).	1	4.9	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)	mg/L		1	Negative	1
蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)	mg/L		1	6.0	30
蒸發殘渣-(4%醋酸, 60°C, 30分鐘) / Evaporation residue-(4% acetic acid, 60°C, 30 min)	mg/L		1	12.0	30
雙酚A-(水, 95°C, 30分鐘) / Bisphenol A -(water, 95°C, 30 min)	ppb	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 (99年4月6日署授食字第0991900983號公 告), 以HPLC/DAD分析. / With reference to Sanitation Standard for Food Utensils, Containers and Packages-Polycarbonate (PC) (except Baby Bottles) (DOH Food No. 0991900983 announced, April 6, 2010). Analysis was performance by HPLC/DAD.	0.5	n.d.	600
雙酚A-(4%醋酸, 60°C, 30分鐘) / Bisphenol A - (4% acetic acid, 60°C, 30 min)	ppb		0.5	n.d.	600

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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.	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)	mg/L		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)	法規 限值 (Limit)
				No.1	
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.	-

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備註(Note) :

1. 0.1wt% = 1000ppm ; mg/kg = ppm ; mg/L = ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)
4. "-" = Not Regulated (無規格值)
5. 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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