

測試報告 Test Report

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甄逸實業有限公司

PIAO I ENTERPRISE CO., LTD.

台灣南投縣埔里鎮福興路297巷121號

NO. 121, LN. 297, FUXING RD., PULI TOWNSHIP, NANTOU COUNTY 54558, TAIWAN



以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

送樣廠商 (Sample Submitted By) : 甄逸實業有限公司 (PIAO I ENTERPRISE CO., LTD.)
樣品名稱 (Sample Description) : PIAO I TEA POT 甄逸杯
樣品材質 (Sample Material) : POLYCARBONATE
原產國 (Country of Origin) : 台灣 (TAIWAN)
收件日期 (Sample Receiving Date) : 2013/09/11
測試期間 (Testing Period) : 2013/09/11 TO 2013/09/18

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第六條 (102.04.09 署授食字第 1021300776 號令修正) 進行以下測試: / As specified by client, with reference to Article 6 of Sanitation Standard for Food Utensils, Containers and Packages (DOH Food No. 1021300776 was amended on 2013/04/09) to test following items:

(1.1) 材質試驗 / Material test : 鉛 / Lead、鎘 / Cadmium.
溶出測試 / Migration test : 雙酚A / Bisphenol A、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、鄰苯二甲酸二(2-乙基己基)酯 (DEHP)、鄰苯二甲酸二丁酯 (DBP).

(1.2) 材質試驗 / Material test : 鄰苯二甲酸二(2-乙基己基)酯 (DEHP)、鄰苯二甲酸二丁酯 (DBP)、鄰苯二甲酸二異壬酯 (DINP)、鄰苯二甲酸二異癸酯 (DIDP)、鄰苯二甲酸丁苯甲酯 (BBP)、鄰苯二甲酸二正辛酯 (DNOP)、鄰苯二甲酸二甲酯 (DMP)、鄰苯二甲酸二乙酯 (DEP).
溶出測試 / Migration test : 鄰苯二甲酸二異壬酯 (DINP)、鄰苯二甲酸二異癸酯 (DIDP)、鄰苯二甲酸丁苯甲酯 (BBP)、己二酸二辛酯 (DEHA) (DOA).

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

結論 (Conclusion) : (1.1) 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第六條 (102.04.09 署授食字第 1021300776 號令修正) / Based upon the performed tests on submitted samples, the test results comply with the limits of requirements in Article 6 of Sanitation Standard for Food Utensils, Containers and Packages (DOH Food No. 1021300776 was amended on 2013/04/09).


James Lu, Sr. 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 (TRANSPARENT PLASTIC)

(1.1)

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)
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	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.	0.5	n.d.	100
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 is 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	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 is performance by HPLC/FLD.	0.0005	n.d.	0.6

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(1.1)

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)	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	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	Utensils, Containers and Packages- Plastics (DOH Food No. 1001902289 Amended and Appended, July 2011).	1	Negative	1
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
鄰苯二甲酸二(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

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(1.2)

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(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考CNS 15138方法, 以氣相層析/質譜偵檢測之。 / With reference to CNS 15138 method. Analysis was performed by GC/MS.	0.003	n.d.	0.1
鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)	%		0.003	n.d.	0.1
鄰苯二甲酸丁苯甲酯 / BBP (Butylbenzyl phthalate) (CAS No.: 85-68-7)	%		0.003	n.d.	0.1
鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%		0.01	n.d.	0.1
鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%		0.01	n.d.	0.1
鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)	%		0.003	n.d.	0.1
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%		0.003	n.d.	0.1
鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)	%		0.003	n.d.	0.1

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(1.2)

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 (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 hour)	ppm		0.5	n.d.	9
鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (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	0.5	n.d.	9
鄰苯二甲酸丁苯甲酯 (正庚烷, 25°C, 1小時) / BBP (Butylbenzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 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.	30
己二酸二辛酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (DOA) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hour)	ppm		0.05	n.d.	18

備註(Note):

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