

測試報告 Test Report

報告編號(No.): HTF23101119

報告日期(DATE): 2023/02/22

頁數(PAGE): 1 of 9

三景塑膠實業股份有限公司 (SUN GEM PLASTICS ENTERPRISE CO., LTD.)

彰化縣線西鄉線平路1號 (NO.1, XIANPING RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN (R.O.C.))

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) :

樣品名稱(Sample Description) : POLYETHYLENE TEREPHTHALATE CONTAINER (PET透明膠板容器)
樣品包裝/數量(Sample Package/Quantity) : 請參考報告末頁樣品照片 (PLEASE REFER TO THE SAMPLE PHOTO AT THE END OF THE REPORT) / -
樣品保存方式(Sample Packaging) : 常溫 (AMBIENT TEMP.)
樣品型號(Style/Item No.) : SG-1218-1, SG-1218, SG-2110, SG-2114, SG-R100, SG-838, SG-849, SG-849-1, SG-838-1, SG-53-1, SG-666-1, SG-S8, SG-1228, SG-1228-1, SG-C112-1, SG-5039, SG-E007, SG-E007-1, SG-5003-1, SG-5030-1, SG-5011, SG-5001-1, SG-607-1, SG-609-1, SG-388, SG-E092, SG-E092-1, SG-PET

樣品批號(Lot. No.) : -
樣品材質(Sample Material) : PET
送樣廠商(Sample Submitted By) : 三景塑膠實業股份有限公司 (SUN GEM PLASTICS ENTERPRISE CO., LTD.)
送樣廠商地址/電話/聯絡人(Company Add/Tel/Contact Person) : 彰化縣線西鄉線平路1號(NO.1, XIANPING RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN (R.O.C.)) / 04-7911-248 / 陳湘妮
製造日期(Manufacturing Date) : -
有效日期(Expiry Date) : -
原產國(Country of Origin) : 台灣 (TAIWAN)

收件日(Sample Receiving Date) : 2023/01/30
測試期間(Testing Period) : 2023/01/30 to 2023/02/20

測試需求 (Test Requested) :
依據客戶指定，參考中華民國食品器具容器包裝衛生標準 (112.01.11部授食字第1111303439號令修正) 進行測試。測試項目請參閱測試結果表格。(As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11) to conduct test. Please refer to the result table(s) for testing item(s).)

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

蕭志祥
蕭志祥 / 副理
化學實驗室 - 台北
台灣檢驗科技股份有限公司
報告簽署人



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彰化縣線西鄉線平路1號 (NO.1, XIANPING RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN (R.O.C.))

測試部位敘述(Test Part Description)

- No.1 : 透明塑膠容器 (TRANSPARENT PLASTIC CONTAINER)
 No.2 : 透明塑膠容器 (與食物接觸面) (TRANSPARENT PLASTIC CONTAINER (FOOD CONTACT SIDE))

測試結果(Test Results)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生法規 (Limit)
				No.1	No.2	
★鉛 / Lead (Pb)	衛生福利部107.09.20衛授食字第1071901823號公告修正食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018).	ppm	5	n.d.	---	100
★鎘 / Cadmium (Cd)		ppm	0.5	n.d.	---	100
★高錳酸鉀消耗量-(水, 60°C, 30分鐘) / Potassium permanganate consumption-(water, 60°C, 30 min)		ppm	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	1
★蒸發殘渣-(4%醋酸, 60°C, 30分鐘) / Evaporation residue-(4% acetic acid, 60°C, 30 min)		ppm	3	---	n.d.	30
★蒸發殘渣-(水, 60°C, 30分鐘) / Evaporation residue-(water, 60°C, 30 min)		ppm	3	---	n.d.	30
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)		ppm	3	---	n.d.	30
★銻-(4%醋酸, 60°C, 30分鐘) / Antimony (Sb)-(4% acetic acid, 60°C, 30 min)		ppm	0.001	---	n.d.	0.05
★鍮-(4%醋酸, 60°C, 30分鐘) / Germanium (Ge)-(4% acetic acid, 60°C, 30 min)		ppm	0.001	---	n.d.	0.1

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彰化縣線西鄉線平路1號 (NO.1, XIANPING RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN (R.O.C.))

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生法規 (Limit)
				No.1	No.2	
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	CNS 15138-1 · Z8139-1 : 塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第1部-氣相層析質譜法。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	%	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 (Butyl Benzyl 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
★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 hr)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	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 hr)		ppm	0.05	---	n.d.	0.3
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	30

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測試報告

Test Report

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三景塑膠實業股份有限公司 (SUN GEM PLASTICS ENTERPRISE CO., LTD.)

彰化縣線西鄉線平路1號 (NO.1, XIANPING RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN (R.O.C.))

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛生法規 (Limit)
				No.1	No.2	
★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 hr)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	0.5	---	n.d.	9
★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 hr)		ppm	0.5	---	n.d.	9
★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hr)		ppm	0.05	---	n.d.	18

備註(Note) :

1. 檢驗報告僅就委託者之委託事項提供檢驗結果，不對產品合法性做判斷。(The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.)
2. 本檢驗報告之所有檢驗內容，均依委託事項執行檢驗，如有不實，願意承擔完全責任。(All contents in the test report are conducted according to the customer-specified items. If there is any falsehood, we are willing to take corresponding responsibility.)
3. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
4. mg/kg = ppm ; 0.1wt% = 1000 ppm
5. LOQ = 定量極限，若該測試項目屬於定量分析則以「LOQ」表示；LOD = 偵測極限，若該測試項目屬於定性分析則以「LOD」表示。(LOQ = Limit of Quantification, for quantitative analyses; LOD = Limit of Detection, for qualitative analyses.)
6. n.d. = Not Detected (未檢出) = Less than (小於) LOQ/LOD
7. "-" = Not Regulated (無規格值)
8. "---" = Not Conducted (未測項目)

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9. 測試項目名稱旁有★者，為本實驗室通過衛生福利部認證項目。(The test method marked with ★ is accredited by MOHW.)
10. 法規標準值係依據衛生福利部112年01月11日部授食字第1111303439號令 食品器具容器包裝衛生標準之法規限值。(The limit value(s) is/are according to "Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11)", Ministry of Health and Welfare of Taiwan.)

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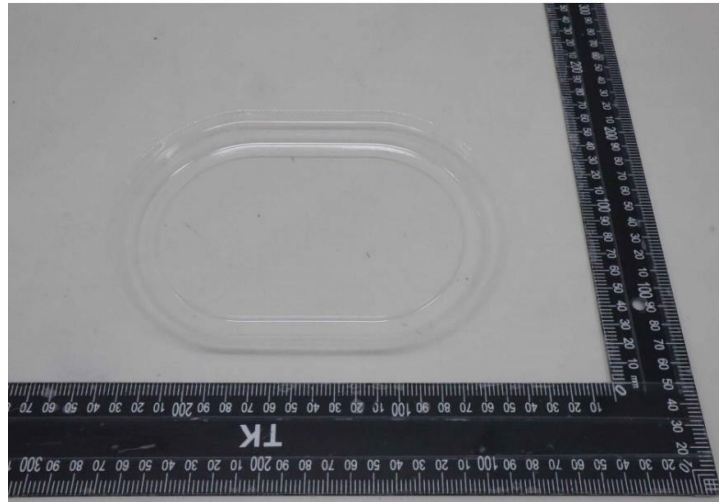
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三景塑膠實業股份有限公司 (SUN GEM PLASTICS ENTERPRISE CO., LTD.)

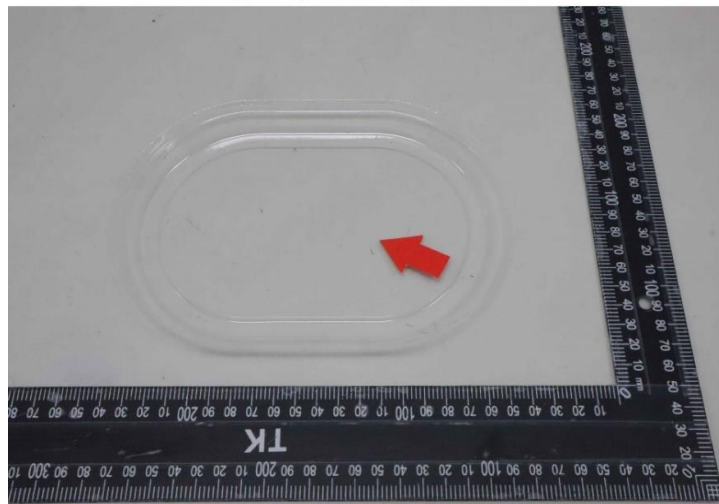
彰化縣線西鄉線平路1號 (NO.1, XIANPING RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN (R.O.C.))

* 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.)

HTF23101119 NO.1



HTF23101119 NO.2



**** 報告結尾 (End of Report) ****

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彰化縣線西鄉線平路1號 (NO.1, XIANPING RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN (R.O.C.))

以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

(The information requested from client is shown as below :)

HTF23101119

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★鉛 / Lead (Pb)	衛生福利部107.09.20衛授食字第1071901823號公告修正食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018).	詳見測試結果之定量/偵測極限。 (Please refer to the result table above.)
★鎘 / Cadmium (Cd)		
★高錳酸鉀消耗量-(水, 60°C, 30分鐘) / Potassium permanganate consumption-(water, 60°C, 30 min)		
★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)		
★蒸發殘渣-(4%醋酸, 60°C, 30分鐘) / Evaporation residue-(4% acetic acid, 60°C, 30 min)		
★蒸發殘渣-(水, 60°C, 30分鐘) / Evaporation residue-(water, 60°C, 30 min)		
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)		
★銻-(4%醋酸, 60°C, 30分鐘) / Antimony (Sb)-(4% acetic acid, 60°C, 30 min)		
★銻-(4%醋酸, 60°C, 30分鐘) / Germanium (Ge)-(4% acetic acid, 60°C, 30 min)		
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		

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彰化縣線西鄉線平路1號 (NO.1, XIANPING RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN (R.O.C.))

以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

(The information requested from client is shown as below :)

HTF23101119

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	CNS 15138-1 · Z8139-1：塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第1部-氣相層析質譜法。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	詳見測試結果之定量/偵測極限。 (Please refer to the result table above.)
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)		
★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 hr)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	
★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 hr)		
★鄰苯二甲酸丁苄甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hr)		
★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 hr)		

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測試報告

Test Report

報告編號(No.): HTF23101119

報告日期(DATE): 2023/02/22

頁數(PAGE): 9 of 9

三景塑膠實業股份有限公司 (SUN GEM PLASTICS ENTERPRISE CO., LTD.)

彰化縣線西鄉線平路1號 (NO.1, XIANPING RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN (R.O.C.))

以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

(The information requested from client is shown as below :)

HTF23101119

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★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 hr)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	詳見測試結果之定量/偵測極限。 (Please refer to the result table above.)
★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hr)		

測試項目名稱旁有★者，為本實驗室通過衛生福利部認證項目。(The test method marked with ★ is accredited by MOHW.)