

測試報告

Test Report

報告編號(No.): HTF22100471M02

報告日期(DATE): 2022/01/18

頁數(PAGE): 1 of 11

正豐塑膠股份有限公司 (CHENG FONG PLASTICS CO., LTD.)

新北市板橋區漢生東路171號4樓 (4F., NO. 171, HAN SHENG EAST ROAD, PANCHIAO DISTRICT, NEW TAIPEI CITY 220, 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) : OPS SHEET
 樣品包裝/數量(Sample Package/Quantity) : 散裝 (BULK PACKAGING) / 15
 樣品保存方式(Sample Packaging) : 常溫 (AMBIENT TEMP.)
 樣品型號(Style/Item No.) : -
 樣品批號(Lot. No.) : -
 樣品材質(Sample Material) : POLYSTYRENE BASIC POLYMERS
 送樣廠商(Sample Submitted By) : 正豐塑膠股份有限公司 (CHENG FONG PLASTICS CO., LTD.)
 送樣廠商地址/電話/聯絡人(Company Add/Tel/Contact Person) : 新北市板橋區漢生東路171號4樓(4F., NO. 171, HAN SHENG EAST ROAD, PANCHIAO DISTRICT, NEW TAIPEI CITY 220, TAIWAN (R. O. C.)) / 02-2958-9911 / -
 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) : 2022/01/06
 測試期間(Testing Period) : 2022/01/06 to 2022/01/18

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 (102.08.20部授食字第1021350146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. 1021350146, amended on 2013/08/20) to conduct test. Please refer to the result table(s) for testing item(s).)
- (2) 依據客戶指定，參考中華民國食品安全衛生管理法 (108.06.12) 第26條進行測試。測試項目請參閱測試結果表格。(As specified by client, with reference to Act Governing Food Sanitation Article 26 (amended and promulgated on 2019/06/12) 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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測試部位敘述(Test Part Description)

No.1 : 透明塑膠片 (TRANSPARENT PLASTIC SHEET)

測試結果(Test Results)

(1)

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	
★鉛 / Lead (Pb)	食品器具、容器、包裝檢驗方法-聚苯乙烯(PS)塑膠類之檢驗 (107年9月20日衛授食字第1071901800號公告) · 以感應耦合電漿發射光譜儀分析。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polystyrene (PS) Plastic Products (MOHW Food No. 1071901800 announced, September 20, 2018), analysis was performed by ICP-OES.	ppm	5	n.d.	100
★鎘 / Cadmium (Cd)		ppm	0.5	n.d.	100
★苯乙烯 / Styrene	食品器具、容器、包裝檢驗方法-聚苯乙烯(PS)塑膠類之檢驗 (107年9月20日衛授食字第1071901800號公告) · / Methods of Test for Food Utensils, Containers and Packages - Test of Polystyrene (PS) Plastic Products (MOHW Food No. 1071901800 announced, September 20, 2018).	ppm	10	389	-
★甲苯 / Toluene		ppm	10	n.d.	-
★乙苯 / Ethylbenzene		ppm	10	25	-
★正丙苯 / n-Propylbenzene		ppm	10	n.d.	-
★異丙苯 / Isopropylbenzene		ppm	10	n.d.	-
(苯乙烯+甲苯+乙苯+正丙苯+異丙苯)五項總和 / Sum of styrene, toluene, ethyl benzene, n-propyl benzene and isopropyl benzene		ppm	-	414	5000
★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 (民國101年) · 以氣相層析質譜儀分析。 / With reference to CNS 15138-1 (2012), 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 (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		%	0.003	n.d.	0.1

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(1)

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	
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	CNS 15138-1 (民國101年) · 以氣相層析質譜儀分析。 / With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.	%	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
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)	食品器具、容器、包裝檢驗方法-聚苯乙烯(PS)塑膠類之檢驗 (107年9月20日衛授食字第1071901800號公告) / Methods of Test for Food Utensils, Containers and Packages - Test of Polystyrene (PS) 1071901800 announced, September 20, 2018).	ppm	3	n.d.	10
★重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		ppm	-	<1	1
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)		ppm	3	5	30
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)		ppm	3	8	30
★蒸發殘渣-(20%酒精, 60°C, 30分鐘) / Evaporation residue-(20% alcohol, 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	4	240

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(1)

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	
★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)	食品器具、容器、包裝檢驗方法-塑膠類之檢驗 (107年10月4日衛授食字第 1071901983號公告)· 以氣相層析質譜儀分析。/ Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018), analysis was performed by GC/MS.	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
★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
★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)		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

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(2)

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
				No.1	(Limit)
★耐熱性試驗 / Heat Tolerance (90°C, 1 h)	塑膠類食品器具容器包裝之耐熱溫度標示符合性試驗方法(106年11月13日衛授食字第1061902219號公告) / Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages (MOHW Food No. 1061902219 announced, November 13, 2017).	-	-	功能性正常 · 無變褪色 / No appearance change	功能性正常 · 無變褪色 / No appearance change

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. "-" = Not Regulated (無規格值)
7. "-" = Not Regulated (無規格值)
8. 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.)
9. 法規標準值係依據衛生福利部102年08月20日部授食字第1021350146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. 1021350146, amended on 2013/08/20)", Ministry of Health and Welfare of Taiwan.)

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正豐塑膠股份有限公司 (CHENG FONG PLASTICS CO., LTD.)
Ministry of Health and Welfare of Taiwan.)

11. 本報告為 HTF22100471 之加發報告，報告加發日期 2022年01月18日。(This is the additional test report of HTF22100471. The additional test report is issued on 2022/01/18.)

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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 :)
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測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★鉛 / Lead (Pb)	食品器具、容器、包裝檢驗方法-聚苯乙烯(PS)塑膠類之檢驗 (107年9月20日衛授食字第1071901800號公告) · 以感應耦合電漿發射光譜儀分析。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polystyrene (PS) Plastic Products (MOHW Food No. 1071901800 announced, September 20, 2018), analysis was performed by ICP-OES.	
★鎘 / Cadmium (Cd)		
★苯乙烯 / Styrene	食品器具、容器、包裝檢驗方法-聚苯乙烯(PS)塑膠類之檢驗 (107年9月20日衛授食字第1071901800號公告) · / Methods of Test for Food Utensils, Containers and Packages - Test of Polystyrene (PS) Plastic Products (MOHW Food No. 1071901800 announced, September 20, 2018).	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)
★甲苯 / Toluene		
★乙苯 / Ethylbenzene		
★正丙苯 / n-Propylbenzene		
★異丙苯 / Isopropylbenzene		
(苯乙烯+甲苯+乙苯+正丙苯+異丙苯)五項總和 / Sum of styrene, toluene, ethyl benzene, n-propyl benzene and isopropyl benzene		
★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 (民國101年) · 以氣相層析質譜儀分析。 / With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.	
★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)		
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		

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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 :)

HTF22100471M02

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	CNS 15138-1 (民國101年) · 以氣相層析質譜儀分析。 / With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.	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)		
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)	食品器具、容器、包裝檢驗方法-聚苯乙烯(PS)塑膠類之檢驗 (107年9月20日衛授食字第1071901800號公告) 。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polystyrene (PS) Plastic Products (MOHW Food No. 1071901800 announced, September 20, 2018).	
★重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)		
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)		
★蒸發殘渣-(20%酒精, 60°C, 30分鐘) / Evaporation residue-(20% alcohol, 60°C, 30 min)		
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)		

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正豐塑膠股份有限公司 (CHENG FONG PLASTICS CO., LTD.)

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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 :)

HTF22100471M02

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★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)	食品器具、容器、包裝檢驗方法-塑膠類之檢驗 (107年10月4日衛授食字第1071901983號公告) · 以氣相層析質譜儀分析。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018), analysis was performed by GC/MS.	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)		
★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)		
★鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小時) / DIDP (Diisodecyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 hr)		
★鄰苯二甲酸二(2-乙基己基)琥珀酸酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 100-25-1) (n-Heptane, 25°C, 1 hr)		

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測試報告

Test Report



報告編號(No.): HTF22100471M02

報告日期(DATE): 2022/01/18

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正豐塑膠股份有限公司 (CHENG FONG PLASTICS CO., LTD.)

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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 :)
 HTF22100471M02

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD

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.)

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