

Test Report 測試報告

Applicant 申請廠商 : Fu Deng Plastic Co., Ltd.
福登塑膠有限公司
No. 7, Lane 40, Zhongshan Road,
Rende Dist, Tainan City 71752,
Taiwan (R.O.C.)
台南市仁德區中山路 40 巷 7 號

Number 報告號碼 : TWNC01079013
Issue Date 報告發行日期 : May 23, 2022

Sample Description 樣品敘述 :

One (1) Group of Submitted Samples Said To Be:

壹(一)件所送檢樣品據指為:

Name of Sample : Collapsible Water Container
樣品名稱 摺疊式水箱
Country of Origin : Taiwan
原產地 台灣
Manufacturer : Fu Deng Plastic Co., Ltd.
製造廠商 福登塑膠有限公司
Date Sample Received : May 03, 2022
樣品收到日期
Date Test Started : May 03, 2022
開始測試日期


Test Conducted 測試內容 :

Tests were conducted by applicant's request, for details please refer to attached pages.
依據客戶要求執行測試，結果請參考附頁。

Conclusion 結論 :

Please see page two.
請見第二頁。

Authorized By 審核者:
On behalf of Intertek Testing Services
Taiwan Limited
全國公證檢驗股份有限公司


Matt Wang 王政雄
Director 協理



Signed by 報告簽署人:



Thomas Chou 周世民
Manager 經理



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Conclusion 結論:

Tested Sample 測試樣品
Tested Component of Submitted Samples 測試部位

Standard 標準

As per European Commission Regulation (EU) No. 10/2011 and its amendments

依據歐盟法規(EU) No. 10/2011 及其更新法案

– Overall Migration Test for Single-Use Plastic Food Contacting Materials/Articles

與食品接觸的一次性使用塑膠材質或產品之總溶出測試

– Specific Migration of Heavy Metal Test for Single- Use Plastic Food Contacting Materials/Articles

與食品接觸的一次性使用塑膠材質或產品之特定溶出重金屬測試

– Specific Migration of Bisphenol-A (BPA) Test for Single- Use Plastic Food Contacting Materials/Articles

與食品接觸的一次性使用塑膠材質或產品之特定溶出雙酚A 測試

Phthalates Content 可塑劑含量

– As per Annex I of European Commission Regulation (EU) No. 10/2011 and its amendments

依據歐盟法規(EU) No. 10/2011 的附錄 I 及其更新法案

Result 結果

Pass 合格 (#1)(#2)

Pass 合格 (#1)(#2)

Pass 合格 (#1)(#2)

Pass 合格 (#1)

Remarks: #1 = As requested by the applicant, the test was conducted only on components listed in this report.
備註 Other components were not tested.

依據客戶要求，僅測試列於此份報告的測試部位，其餘部位並未執行。

#2 = As per applicant's request, the submitted samples were cut before test.

依據客戶要求，樣品經裁切後測試。

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Test Conducted 測試內容 :

1. Overall Migration Test for Single-Use Plastic Food Contacting Materials/Articles

與食品接觸的一次性使用塑膠材質或產品之總溶出測試

As per Commission Regulation (EU) No. 10/2011 and its Amendments, the migration test was conducted once.
依據歐盟法規 EU No. 10/2011 及其更新法案，此溶出測試僅進行一次循環。

I. Test Condition 測試條件:

OM 2 : 40 °C for 10 days 天

II. Test Result 測試結果:

Food Simulant 食物模擬液: 3%(w/v) acetic acid 醋酸

<u>Tested Sample</u> 測試樣品	<u>Result (mg/dm²)</u> 結果 (毫克/平方公寸)	<u>Limit (mg/dm²)</u> 限值 (毫克/平方公寸)
Semitransparent plastic sheet	5	10

Remarks: Detection limit 偵測極限 = 1 mg/dm² 毫克/平方公寸
備註 Solvents & test condition were selected based on applicant's request.
依據客戶要求選擇測試條件及模擬之測試液。



Test Conducted 測試內容 :

2. Specific Migration of Heavy Metal Test for Single-Use Plastic Food Contacting Materials/Articles
與食品接觸的一次性使用塑膠材質或產品之特定溶出重金屬測試

As per Commission Regulation (EU) No. 10/2011 and its amendments, the migration test was conducted once.
 依據歐盟法規 EU No. 10/2011 及其更新法案，此溶出測試僅進行一次循環。

I. Test Condition 測試條件:
 70°C for 3 days 天

II. Test Result 測試結果:

Food simulant 食物模擬液: 3%(w/v) acetic acid 醋酸

<u>Element</u> 元素	<u>Result (mg/kg food)</u> 結果 (毫克/千克)	<u>Detection Limit</u> (mg/kg food)	<u>Limit</u> (mg/kg food)
	<u>Semitransparent plastic sheet (#3)</u>	<u>偵測極限 (毫克/千克)</u>	<u>限值 (毫克/千克)</u>
Aluminium (Al) 鋁	ND	0.1	1
Antimony (Sb) 銻	ND	0.01	0.04
Arsenic (As) 砷	ND	0.01	ND
Barium (Ba) 鋇	ND	0.1	1
Cadmium (Cd) 鎘	ND	0.002	ND
Chromium (Cr) 鉻	ND	0.01	ND
Cobalt (Co) 鈷	ND	0.01	0.05
Copper (Cu) 銅	ND	0.5	5
Iron (Fe) 鐵	ND	5	48
Lead (Pb) 鉛	ND	0.01	ND
Lithium (Li) 鋰	ND	0.1	0.6
Manganese (Mn) 錳	ND	0.1	0.6
Mercury (Hg) 汞	ND	0.01	ND
Nickel (Ni) 鎳	ND	0.01	0.02
Zinc (Zn) 鋅	ND	0.5	5
Europium (Eu) 鎔	ND	0.01	0.05
Gadolinium (Gd) 釓	ND	0.01	0.05
Lanthanum (La) 鐳	ND	0.01	0.05
Terbium (Tb) 鉕	ND	0.01	0.05
Sum of Eu, Gd, La and Tb 鎔、釓、鐳及鉕的總和	ND	--	0.05

Remarks: ND = Not detected 未檢測出

備註 #3 = The result was expressed in mg/kg applying a surface to volume ratio of 6 dm² per kg, which was quoted for samples that are sheet, film or other material or articles which cannot be filled or for which it is impracticable to estimate the relationship between the surface area of such material or article and the quantity of food in contact therewith.
 樣品為薄片、薄膜或不可填充的材料或製品，由於無法估計樣品接觸食物的表面積，測試結果以 6 dm²/kg 調整，並以 mg/kg 表示

Solvents & test condition were selected based on applicant's request.
 依據客戶要求選擇測試條件及模擬之測試液。



Test Conducted 測試內容 :

3. Specific Migration of Bisphenol-A (BPA) Test for Single-Use Plastic Food Contacting Materials/Articles 與食品接觸的一次性使用塑膠材質或產品之特定溶出雙酚 A 測試

As per European Commission regulation (EU) No. 10/2011 and its amendments, the migration test was conducted once.

依據歐盟法規 EU No. 10/2011 及其更新法案，此溶出測試僅進行一次循環。

I. Test Condition 測試條件:
70°C for 3 days 天

II. Test Result 測試結果

Food Simulant 食物模擬液: 3%(w/v) acetic acid 醋酸

<u>Tested Sample 測試樣品</u>	<u>Result (mg/kg food) 結果 (毫克/仟克)</u>	<u>Limit (mg/kg food) 限值 (毫克/仟克)</u>
Semitransparent plastic sheet (#3)	ND	0.05

Remarks: ND = Not detected 未檢測出
備註 Detection limit 偵測極限 = 0.05 mg/kg 毫克/仟克
#3 = The result was expressed in mg/kg applying a surface to volume ratio of 6 dm² per kg, which was quoted for samples that are sheet, film or other material or articles which cannot be filled or for which it is impracticable to estimate the relationship between the surface area of such material or article and the quantity of food in contact therewith.
樣品為薄片、薄膜或不可填充的材料或製品，由於無法估計樣品接觸食物的表面積，測試結果以 6 dm²/kg 調整，並以 mg/kg 表示
Solvents & test condition were selected based on applicant's request.
依據客戶要求選擇測試條件及模擬之測試液。

4. Phthalates Content 可塑劑含量

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.
以溶劑萃取並用氣相層析質譜儀分析。

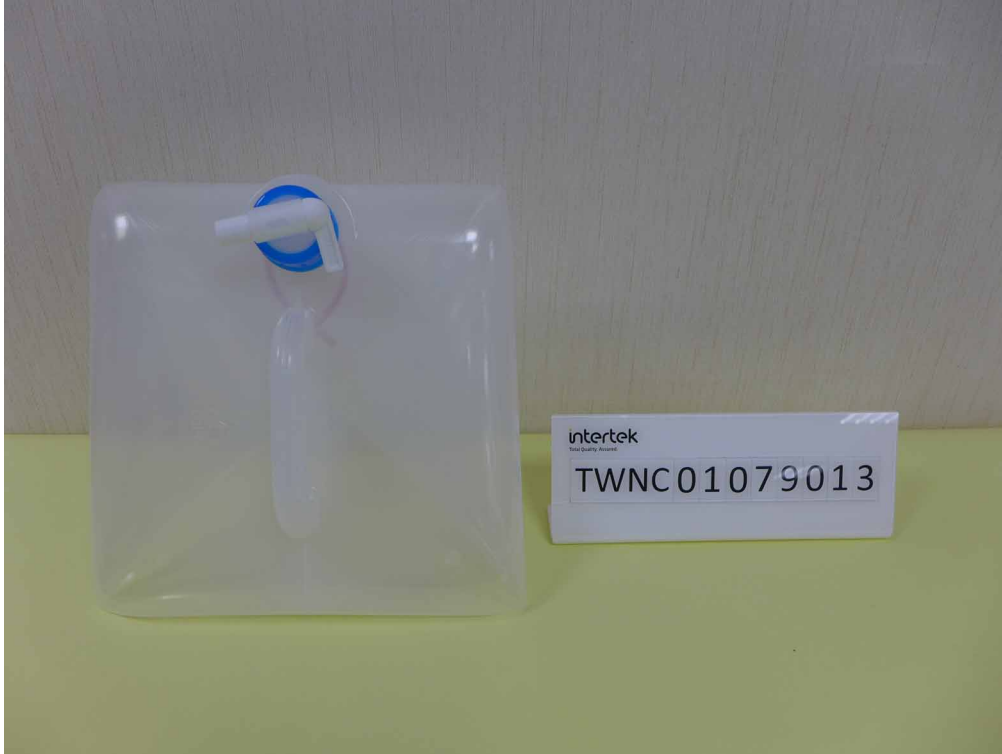
<u>Compound 化合物</u>	<u>Result 結果 (%) Semitransparent plastic sheet</u>	<u>Limit 限值 (%)</u>
Diethyl Hexyl Phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯	ND	0.1
Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯	ND	0.05
Benzyl Butyl Phthalate (BBP) 鄰苯二甲酸苯基丁酯	ND	0.1
Di-(Iso-Nonyl) Phthalate (DINP) 鄰苯二甲酸二異壬酯	ND	0.1
Di-(Iso-Decyl) Phthalate (DIDP) 鄰苯二甲酸二異癸酯	ND	0.1

Remarks: % = Percentage based on weight of tested sample 重量百分比
備註 ND = Not detected 未檢測出
Detection limit 偵測極限 = 0.005 %



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Sample photo 樣品照片 :



End of Report 結束

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