

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.8, Taiyi 10th St.,
Rende Dist., Tainan City 71747,
Taiwan (R.O.C.)
台南市仁德區太乙 10 街 8 號

Number 報告號碼 : TWNC00881147S1
Issue Date 報告發行日期 : Jun 09, 2020

This is to supersede
Report No. TWNC00881147
Dated May 28, 2020
此份報告取代報告號碼 TWNC00881147
日期 2020 年 5 月 28 日

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(各)為:
Name of Sample : Collapsible Water Container
樣品名稱
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 : Apr 27, 2020
樣品收到日期
Date Test Started : Apr 27, 2020
開始測試日期

Test Conducted 測試內容:

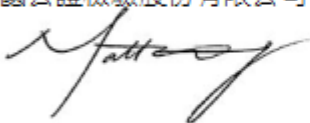
Tests were conducted by applicant's request, for details please refer to attached pages.
依據客戶要求執行測試，結果請參考附頁。

Conclusion 結論:

Please see page two.
請見第二頁。

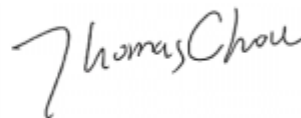
Authorized by 審核者:

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
Sr. Manager 資深經理

Signed by 報告簽署人:



Thomas Chou 周世民
Manager 經理



Test Report 測試報告

Number 報告號碼 : TWNC00881147S1

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 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 Plastic Food Contacting Materials/Articles

與食品接觸的塑膠材質或產品之總溶出測試

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

與食品接觸的塑膠材質或產品之特定溶出重金屬測試

– Specific Migration Of Bisphenol A (BPA) Test

特定溶出雙酚 A 測試

Result 結果

Pass 合格 (#1)(#2)

Pass 合格 (#1)(#2)

Pass 合格 (#1)(#2)

Phthalates Content 可塑劑含量

Pass 合格 (#1)

– As per Annex I of European Commission Regulation 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

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.

#2 = As per applicant's request, the submitted samples were cut before test.
 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。
 依據客戶要求，樣品經裁切後測試。

Note: The migration tests were conducted once according to the applicant's request.
 備註 依據客戶要求此溶出測試僅進行單循環。

Test Condition 測試條件:

Test Item 測試項目	Overall Migration Test 總溶出測試
Condition 條件	OM 2 : 40 °C for 10 days 天
Food Simulant 食品模擬液	10% Ethanol 乙醇/ 3% Acetic Acid 醋酸/ Fatty Food Simulant 油脂食物模擬液

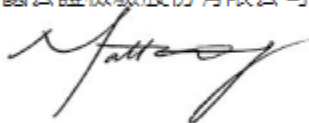
Test Item 測試項目	Specific Migration of Heavy Metal Test 特定溶出重金屬測試
Condition 條件	70°C for 10 days 天
Food Simulant 食品模擬液	3% Acetic Acid 醋酸

Test Item 測試項目	Specific Migration of Bisphenol A (BPA) Test 特定溶出雙酚 A 測試
Condition 條件	70°C for 10 days 天
Food Simulant 食品模擬液	10% Ethanol 乙醇/ 3% Acetic Acid 醋酸/ Fatty Food Simulant 油脂食物模擬液

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
 Sr. Manager 資深經理

Signed by 報告簽署人:



Thomas Chou 周世民
 Manager 經理



Test Conducted 測試內容 :

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

與食品接觸的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:

<u>Food Simulant</u> 食物模擬液	<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)
10% (v/v) Ethanol 乙醇	1	10
3% (w/v) Acetic Acid 醋酸	1	10
Fatty Food Simulant 油脂食品模擬液	5	10

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

2. Specific Migration of Heavy Metal Test for Plastic Food Contacting Materials/Articles

與食品接觸的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 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>Element</u> 元素	<u>Result (mg/kg food)</u> 結果 (毫克/千克)	<u>Detection Limit</u> (mg/kg food) 偵測極限 (毫克/千克)	<u>Limit</u> (mg/kg food) 限值 (毫克/千克)
	<u>Semitransparent plastic sheet (#3)</u>		
Barium (Ba) 鋇	ND	0.1	1
Cobalt (Co) 鈷	ND	0.01	0.05
Copper (Cu) 銅	ND	0.5	5
Iron (Fe) 鐵	ND	5	48
Lithium (Li) 鋰	ND	0.1	0.6
Manganese (Mn) 錳	ND	0.1	0.6
Zinc (Zn) 鋅	ND	0.5	5
Aluminium(Al) 鋁	ND	0.1	1
Nickel(Ni) 鎳	ND	0.01	0.02



Test Conducted 測試內容 :

2. Specific Migration of Heavy Metal Test for Plastic Food Contacting Materials/Articles

與食品接觸的塑膠材質或產品之特定溶出重金屬測試

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。

The limits were quoted from European Commission Regulation No. 10/2011 and amendment (EU) 2016/1416 and (EU) 2017/752.

依據歐盟法規(EU) No. 10/2011 及其更新法案(EU) 2016/1416 和 (EU) 2017/752。

3. Specific Migration Of Bisphenol A (BPA) Test For Plastic Food Contacting Materials/Articles

與食品接觸的塑膠材質或產品之特定溶出雙酚 A 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 10 Days 十天

II. Test Result 測試結果

Food Simulant 食物模擬液	Result 結果 (mg/kg food) Semitransparent plastic sheet (#3)	Limit 限值(mg/kg food)
10% (v/v) Ethanol 乙醇	ND	0.05
3% (w/v) Acetic Acid 醋酸	ND	0.05
Fatty Food Simulant 油脂食品模擬液	ND	0.05

Remarks: ND = Not Detected 未檢出

備註 Detection limit 偵測極限 = 0.05 mg/kg

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。

#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



Test Conducted 測試內容 :

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</u> 化合物	<u>Result 結果(%)</u>	<u>Limit 限值(%)</u>
	<u>Semitransparent plastic sheet</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 重量百分比例
備註 ND = Not detected 未檢測出
Detection limit 偵測極限 = 0.005 %



Number 報告號碼 : TWNC00881147S1

Sample photo 樣品照片 :



Revision Notes 修改註記:

1. Intertek Testing Services report number TWNC00881147, issue date May 28, 2020 has been superseded by a revised Intertek Testing Services Report Number TWNC00881147S1. Intertek Testing Services 報告號碼 TWN00881147, 發行日期 2020年5月28日, 已被 Intertek Testing Services 報告號碼 TWNC00881147S1 取代並註銷。
2. Revised Contents 修改內容
Page 1, modified date sample received and date test started. 頁碼 1, 修改收件日期及開始測試日期。

End of Report 結束

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Reporting Statements of Conformity: Please note that the test results contain statement of conformity with the decision rules which are based on the specifications of customers, regulations and standards, and does not consider measurement uncertainty.



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