

Test Report 測試報告

Applicant: Fu Deng Plastic Co., Ltd.
申請廠商 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 : TWNC01277264
報告號碼

Issue Date : Jun 11, 2024
報告發行日期

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

Goods Exported to : Worldwide

外銷國家 全球

Manufacturer : Fu Deng Plastic Co., Ltd.

製造廠商 福登塑膠有限公司

Date Job Applied : Jun 07, 2024

申請日期

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。

Remarks 備註:

Results were transferred from report No.TWNC01263770_dated Jun 06, 2024.

分析結果是由 TWNC001263770，日期 Jun 06, 2024 的報告轉載。

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
General Manager 總經理



Signed by 報告簽署人:

Thomas Chou

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

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

Overall Migration Test for Repeated Use Plastic Food Contacting
Materials/Articles

與食品接觸的重複性使用塑膠材質或產品之總溶出測試
— 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

Pass 合格

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

與食品接觸的重複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
依據歐盟法規(EU) No. 10/2011 及其更新法案

Pass 合格

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

與食品接觸的重複性使用塑膠材質或產品之特定溶出重金屬測試
— 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

Pass 合格

Remarks: 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。

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
General Manager 總經理



Signed by 報告簽署人:

Thomas Chou

Thomas Chou 周世民
Manager 經理



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Test Conducted 測試內容 :

1. 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>Semitransparent plastic box</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 重量百分比比例
備註 ND = Not detected 未檢測出
Detection limit 偵測極限 = 0.005 %



Test Conducted 測試內容：

2. Overall Migration Test for Repeated Use Plastic Food Contacting Materials/Articles

與食品接觸的重複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 shall be carried out three times on a signal tested sample for repeated use materials and articles.

依據歐盟法規 EU No. 10/2011 及其更新法案，此溶出測試針對重複性使用材質與物品，單一測試樣品須執行三次溶出測試。

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

Tested Component 測試部位	Result (mg/dm ²) 結果 (毫克/平方公寸)			Limit (mg/dm ²) 限值 (毫克/平方公寸)
	1 st Test	2 nd Test	3 rd Test	
	第一次測試	第二次測試	第三次測試	
Semitransparent plastic box	ND	ND	ND	10

Remarks: ND = Not detected 未檢測出

備註 Detection limit 偵測極限 = 1 mg/dm² 毫克/平方公寸

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。

According to point 3.3.2 in Annex V to (EU) No. 10/2011 amended by (EU) No. 2020/1245, the overall migration in the second test shall not exceed the level observed in the first test, and the overall migration in the third test shall not exceed the level observed in the second test. Compliance with the overall migration limit shall be verified on the basis of the level of the overall migration found in the third test.

根據(EU) No. 10/2011 及其更新指令(EU) No. 2020/1245 附錄 V 第 3.3.2 點，第二次總溶出測試結果不得超過第一次測試結果，且第三次總溶出測試結果不得超過第二次測試結果。總溶出測試的符合性應由第三次測試結果是否符合總溶出限值來判定。



Test Conducted 測試內容：

3. Specific Migration of Bisphenol A (BPA) Test for Repeated Use Plastic Food Contacting Materials/Articles
與食品接觸的重複性使用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 shall be carried out three times on a signal tested sample for repeated use materials and articles.

依據歐盟法規 EU No. 10/2011 及其更新法案，此溶出測試針對重複性使用材質與物品，單一測試樣品須執行三次溶出測試。

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

Tested Component 測試部位	Result (mg/kg food) 結果 (毫克/仟克)			Limit (mg/kg food) 限值 (毫克/仟克)
	1 st Test	2 nd Test	3 rd Test	
	第一次測試	第二次測試	第三次測試	
Semitransparent plastic box	ND	ND	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

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。

According to point 2.1.6 in Annex V to (EU) No. 10/2011 amended by (EU) No. 2020/1245, the specific migration in the second test shall not exceed the level observed in the first test, and the specific migration in the third test shall not exceed the level observed in the second test. Compliance with the specific migration limit shall be verified on the basis of the level of the specific migration found in the third test.

根據(EU) No. 10/2011 及其更新指令(EU) No. 2020/1245 附錄 V 第 2.1.6 點，第二次特定溶出測試結果不得超過第一次測試結果，且第三次特定溶出測試結果不得超過第二次測試結果。特定溶出測試的符合性應由第三次測試結果是否符合特定溶出限值來判定。



Test Conducted 測試內容：

4. Specific Migration of Heavy Metal Test for Repeated Use Plastic Food Contacting Materials/Articles
與食品接觸的重複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 shall be carried out three times on a signal tested sample for repeated use materials and articles.

依據歐盟法規 EU No. 10/2011 及其更新法案，此溶出測試針對重複性使用材質與物品，單一測試樣品須執行三次溶出測試。

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
Tested Component 測試部位: Semitransparent plastic box

Element 元素	Result (mg/kg food) 結果 (毫克/千克)			Detection Limit (mg/kg food) 偵測極限 (毫克/千克)	Limit (mg/kg food) 限值 (毫克/千克)
	1 st Test 第一次測試	2 nd Test 第二次測試	3 rd Test 第三次測試		
Aluminium (Al) 鋁	ND	ND	ND	0.1	1
Antimony (Sb) 銻	ND	ND	ND	0.01	0.04
Arsenic (As) 砷	ND	ND	ND	0.01	ND
Barium (Ba) 鋇	ND	ND	ND	0.1	1
Cadmium (Cd) 鎘	ND	ND	ND	0.002	ND
Chromium (Cr) 鉻	ND	ND	ND	0.01	ND
Cobalt (Co) 鈷	ND	ND	ND	0.01	0.05
Copper (Cu) 銅	ND	ND	ND	0.5	5
Iron (Fe) 鐵	ND	ND	ND	5	48
Lead (Pb) 鉛	ND	ND	ND	0.01	ND
Lithium (Li) 鋰	ND	ND	ND	0.1	0.6
Manganese (Mn) 錳	ND	ND	ND	0.1	0.6
Mercury (Hg) 汞	ND	ND	ND	0.01	ND
Nickel (Ni) 鎳	ND	ND	ND	0.01	0.02
Zinc (Zn) 鋅	ND	ND	ND	0.5	5
Europium (Eu) 銦	ND	ND	ND	0.01	0.05
Gadolinium (Gd) 釓	ND	ND	ND	0.01	0.05
Lanthanum (La) 鐳	ND	ND	ND	0.01	0.05
Terbium (Tb) 鉕	ND	ND	ND	0.01	0.05
Sum of Eu, Gd, La and Tb 銦、釓、鐳及鉕的總和	ND	ND	ND	--	0.05

Remarks 備註: ND = Not detected 未檢測出
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。
According to point 2.1.6 in Annex V to (EU) No. 10/2011 amended by (EU) No. 2020/1245, the specific migration in the second test shall not exceed the level observed in the first test, and the specific migration in the third test shall not exceed the level observed in the second test.
Compliance with the specific migration limit shall be verified on the basis of the level of the specific migration found in the third test.
根據(EU) No. 10/2011 及其更新指令(EU) No. 2020/1245 附錄 V 第 2.1.6 點，第二次特定溶出測試結果不得超過第一次測試結果，且第三次特定溶出測試結果不得超過第二次測試結果。特定溶出測試的符合性應由第三次測試結果是否符合特定溶出限值來判定。

End of Report

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