

TEST REPORT

Applicant: Fu Deng Plastic Co., Ltd.
No. 8, Taiyi 10th St.,
Rende District, Tainan City 71747,
Taiwan, R.O.C.

Number : TWNH00068564

Date : Feb 21, 2018

Sample Description:

One (1) group of submitted samples said to be :
Item name : Collapsible Water Container
Country of origin : Taiwan
Goods exported to : Worldwide
Manufacturer's Name : Fu Deng Plastic Co., Ltd.
Date sample received : Jan 30, 2018
Date test started : Jan 31, 2018

Test Conducted:

As requested by the applicant, for details please refer to attached pages.

Conclusion:

Please see page two.

全國公證檢驗股份有限公司
審核者:



王政雄
資深經理



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Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Tested Components Of Submitted Samples	As Per Applicant's Request with Reference to European Commission Regulation No. 10/2011	
	– Overall Migration Test	Pass (#1)(#2)
	– Specific Migration of Heavy Metal Test	Pass (#1)(#2)
	– Specific Migration Of Bisphenol A (BPA) Test	Pass (#1)(#2)
	Phthalates Content Test	Pass (#1)(#2)
	– As per European Commission Regulation No. 10/2011 Annex I	

Remarks : #1= As per applicant's request, the submitted samples were cut before test.
 #2= As requested by the applicant, the test was conducted only on components listed in this report. Other components were not tested.

Note : The migration tests were conducted once according to the applicant's request.

Test Condition:

Test Item	Overall Migration Test
Condition	OM 2 : 40 °C for 10 Days
Food Simulant	10% Ethanol/ 3% Acetic Acid/ Fatty Food Simulant

Test Item	Specific Migration Test - Heavy Metal Test
Condition	70°C for 10 Days
Food Simulant	3% Acetic Acid

Test Item	Specific Migration Test - Bisphenol A (BPA) Test
Condition	70°C for 10 Days
Food Simulant	10% Ethanol/ 3% Acetic Acid/ Fatty Food Simulant

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Test Conducted

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

As Per Applicant's Request with Reference to Commission Regulation (EU) No. 10/2011 and the migration test was conducted once.

I. Test Condition:
OM 2 : 40 °C for 10 Days

II. Test Results :

<u>Food Simulant</u>	<u>Result (mg/dm²)</u>	<u>Limit (mg/dm²)</u>
	<u>Semitransparent plastic sheet</u>	
10% (v/v) Ethanol	<1	10
3% (w/v) Acetic Acid	<1	10
Fatty Food Simulant	7	10

Remarks: < = Less than
Solvents & test condition were selected based on applicant's request.

2. Specific Migration Of Heavy Metal Test For Plastic Food Contacting Materials/Articles

As Per Applicant's Request with Reference to Commission Regulation (EU) No. 10/2011 and the migration test was conducted once.

I. Test Condition:
70°C for 10 Days

II. Test Result

Food simulant: 3% (w/v) acetic acid

<u>Element</u>	<u>Result (mg/kg)</u>	<u>DL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	<u>Semitransparent plastic sheet (#3)</u>		
Barium (Ba)	ND	0.1	1
Cobalt (Co)	ND	0.03	0.05
Copper (Cu)	ND	1	5
Iron (Fe)	ND	5	48
Lithium (Li)	ND	0.1	0.6
Manganese (Mn)	ND	0.1	0.6
Zinc (Zn)	ND	5	25

Remarks: ND = Not detected
DL = Detection limit
Solvents & test condition were selected based on applicant's request.
#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.



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

As Per Applicant's Request with Reference to Commission Regulation (EU) No. 10/2011 and the migration test was conducted once.

I. Test Condition:
70°C for 10 Days

II. Test Result

<u>Food Simulant</u>	<u>Result (mg/kg)</u> <u>Semitransparent plastic sheet (#3)</u>	<u>Limit (mg/kg)</u>
10% (v/v) Ethanol	ND	0.6
3% (w/v) Acetic Acid	ND	0.6
Fatty Food Simulant	ND	0.6

Remarks: ND = Not Detected
 Detection limit = 0.3 mg/kg
 Solvents & test condition were selected based on applicant's request.
 #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.

4. Phthalates Content Test

By solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

<u>Compound</u>	<u>Result (%)</u> <u>Semitransparent plastic sheet</u>	<u>Limit (%)</u>
Dibutyl Phthalate (DBP)	ND	0.05
Diethyl Hexyl Phthalate (DEHP)	ND	0.1
Benzyl Butyl Phthalate (BBP)	ND	0.1
Di-(Iso-Nonyl) Phthalate (DINP)	ND	0.1
Di-(Iso-Decyl) Phthalate (DIDP)	ND	0.1

Remarks: % = Percentage based on weight of tested sample
 Detection limit = 0.005% (for each compound)
 ND = Not detected



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End of Report

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