

Test Report

No.: CY/2012/42033 Date : 2012/05/03 Page : 1 of 5

FOLDNFOLD ENGINEERING
4FL., NO. 3, LANE 278, KANG-TING RD., TAIPEI, TAIWAN



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Product Description : FOFOCUP
 Style/Item No. : FOFOCUP 8oz/ 16oz/ 20oz
 Sample Material : PP (POLYPROPYLENE)
 Manufacturer/Vendor : FOLDNFOLD ENGINEERING
 Country of Origin : TAIWAN
 Sample Receiving Date : 2012/04/23
 Testing Period : 2012/04/23 TO 2012/05/03

Test Requested : Testing as per Commission Regulation (EU) No 10/2011 of 14 January 2011 and hence Article 3 of European Regulation No. 1935/2004.

Test Method : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Summary :

(1)	Plastic - Specific Migration of Heavy Metal	PASS
(2)	Plastic - Phthalates content	PASS
(3)	Plastic - "10% ethanol, 3% Acetic Acid (W/V) Aqueous Solution, Rectified Olive Oil" Overall migration	PASS
(4)	Specific Migration of Bisphenol A	PASS
(5)	Specific Migration of Phthalates	PASS


 James Lu / Supervisor
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory – Taipei

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Test Report

No.: CY/2012/42033 Date : 2012/05/03 Page : 2 of 5

FOLDNFOLD ENGINEERING
4FL., NO. 3, LANE 278, KANG-TING RD., TAIPEI, TAIWAN



Test Result(s)

PART NAME No.1 : WHITE PLASTIC CUP (16oz)

(1) Plastic - Specific Migration of Heavy Metal					PASS
Test Item (s)	Unit	Method	MDL	Result	Limit
				No.1	
Barium(Ba)	mg/kg	Sample preparation in 10% ethanol at 100°C for 24 hours with reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method; followed by analysis using ICP-AES.	0.25	n.d.	1
Cobalt(Co)	mg/kg		0.01	n.d.	0.05
Copper(Cu)	mg/kg		0.25	n.d.	5
Iron(Fe)	mg/kg		0.25	n.d.	48
Lithium(Li)	mg/kg		0.5	n.d.	0.6
Manganese(Mn)	mg/kg		0.25	n.d.	0.6
Zinc(Zn)	mg/kg		0.5	n.d.	25

(2) Plastic - Phthalates content					PASS
Test Item (s)	Unit	Method	MDL	Result	Limit
				No.1	
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	0.1
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%		0.003	n.d.	0.1
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%		0.01	n.d.	0.1
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%		0.01	n.d.	0.1
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%		0.003	n.d.	0.05

(3) Plastic - "10% ethanol, 3% Acetic Acid (W/V) Aqueous Solution, Rectified Olive Oil" Overall migration					PASS
Simulant Used	Unit	Method	MDL	Result	Limit
				No.1	
10% Ethanol (V/V) Aqueous Solution	mg/dm ²	With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN1186-1:2002 for selection of test method.	3.0	n.d.	10
3% Acetic Acid (W/V) Aqueous Solution	mg/dm ²		3.0	n.d.	10
Rectified Olive Oil	mg/dm ²		3.0	4.6	10

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Test Report

No.: CY/2012/42033 Date : 2012/05/03 Page : 3 of 5

FOLDNFOLD ENGINEERING
4FL., NO. 3, LANE 278, KANG-TING RD., TAIPEI, TAIWAN



Remark:

- A. Test condition & simulant were specified by client: 100°C, 4hours or at reflux
- B. Analytical tolerance of aqueous simulants is 1 mg/dm².
- C. Analytical tolerance of fatty food simulants is 3 mg/dm².

(4) Specific Migration of Bisphenol A

PASS

Test Item	Unit	Method	MDL	Result	Limit
				No.1	
Specific Migration of Bisphenol A	mg/kg	Sample preparation in 10% Ethanol at 100 °C for 24 hours with reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method; followed by analysis using LC/MS/MS.	0.2	n.d.	0.6

(5) Specific Migration of Phthalates

PASS

Test Item	Unit	Method	MDL	Result	Limit
				No.1	
Benzyl butyl phthalate (BBP) (CAS No.: 85-68-7)	mg/kg	Sample preparation in 10% Ethanol (v/v) in aqueous solution at 100°C for 24 hours with reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method; followed by analysis using LC/MS/MS.	0.05	n.d.	30
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)	mg/kg		0.05	n.d.	0.3
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)	mg/kg		0.05	n.d.	1.5
Di-isodecyl phthalate (DIDP) (CAS No.: 26761-40-0)	mg/kg		0.05	n.d.	9 (DIDP+ DINP)
Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0)	mg/kg		0.05	n.d.	
Diallyl phthalate (DAP) (CAS No.: 131-17-9)	mg/kg		0.01	n.d.	0.01

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Test Report

No.: CY/2012/42033 Date : 2012/05/03 Page : 4 of 5

FOLDNFOLD ENGINEERING
4FL., NO. 3, LANE 278, KANG-TING RD., TAIPEI, TAIWAN



Note:

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. % = percentage of weight by weight
3. mg/dm² = milligram per square decimeter
4. °C = degree Celsius
5. n.d. = Not Detected
6. MDL = Method Detection Limit
7. Test condition & simulant were specified by client.
8. The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V.
9. Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011.

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Test Report

No.: CY/2012/42033 Date : 2012/05/03 Page : 5 of 5

FOLDNFOLD ENGINEERING
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

CY/2012/42033



** End of Report **

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