

Test Report

No. SHAHG1503582001

Date: 18 Mar 2015

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PUJIANG DAIER PLASTIC INDUSTRIAL CO.,LTD
NO.338 QIANFANG ROAD,PUJIANG 322200,ZHEJIANG,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PLASTIC CUP,PLASTIC LID

SGS Job No. : SHHG1503006834CW - SH
Country of Destination : SPAIN
Date of Sample Received : 10 Mar 2015
Testing Period : 10 Mar 2015 - 18 Mar 2015
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Overall migration	PASS
Specific migration of heavy metal	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Serena Wang
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA15-035820.001	Transparent plastic cup	PP
SN2	SHA15-035820.002	White plastic cup	PS
SN3	SHA15-035820.003	Transparent plastic lid	PET

Overall migration

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine overall migration.

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;
EN 1186-2: 2002 olive oil by total immersion method

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall migration</u>
10% Ethanol (V/V) aqueous solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
3% Acetic acid (W/V) aqueous solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
50% Ethanol (V/V) aqueous solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
Rectified olive oil	2.0hr(s)	70°C	10mg/dm ²	6.6mg/dm ²

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002 Overall migration</u>
10% Ethanol (V/V) aqueous solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
3% Acetic acid (W/V) aqueous solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
50% Ethanol (V/V) aqueous solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
Rectified olive oil	2.0hr(s)	70°C	10mg/dm ²	4.6mg/dm ²

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003 Overall migration</u>
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10% Ethanol (V/V) aqueous solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
3% Acetic acid (W/V) aqueous solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
50% Ethanol (V/V) aqueous solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
Rectified olive oil	2.0hr(s)	70°C	10mg/dm ²	6.4mg/dm ²

Notes :

- (1) Analytical tolerance of aqueous simulants is 1 mg/dm² or 6 mg/kg.
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20 mg/kg.
- (3) Test condition & simulant were specified by client.

Specific migration of heavy metal

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine specific migration of heavy metal.

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-OES.

Sample 001

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	25	mg/kg	0.5	ND

Sample 002

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
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Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	25	mg/kg	0.5	ND

Sample 003

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	25	mg/kg	0.5	ND

Notes :

(1) Test condition & simulant were specified by client.

Remark :

- (1) <= less than
- (2) mg/dm² =milligram per square decimeter
- (3) °C=degree Celsius
- (4) MDL = Method Detection Limit
- (5) ND = Not Detected (< MDL)
- (6) mg/kg = milligram per kilogram



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