

## Test Report

No. SHAHG1200513001

Date: 22 Feb 2012

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XINDAO HONG KONG CO.,LTD.

15TH FLOOR,LZY TOWER,NO.4711 JIAOTONG ROAD

The following sample(s) was/were submitted and identified on behalf of the clients as : P432.00\*; P432.19\*MUG

SGS Job No. : SHHG1201000641SD - SH

Country of Destination : EU

Date of Sample Received : 12 Jan 2012

Testing Period : 12 Jan 2012 - 21 Feb 2012

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).

Conclusion : When tested as specified, the tested parameters comply with the requirements stated in Commission Regulation (EU) No 10/2011 of 14 January 2011 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on plastic materials and articles intended to come into contact with aqueous foodstuff(pH>4.5),acidic foodstuff(pH≤4.5)

When tested as specified, the tested parameters comply with the Council of Europe Resolution AP (2004) 5 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 relating to silicone rubber materials and articles intended to come into contact with aqueous foodstuff(pH>4.5),acidic foodstuff(pH≤4.5)

When tested as specified, the tested parameters comply with the Council of Europe Resolution AP (2004) 4 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 relating to rubber materials and articles intended to come into contact with aqueous foodstuff(pH>4.5),acidic foodstuff(pH≤4.5)

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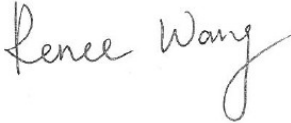
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Signed for and on behalf of  
SGS-CSTC Ltd.



Wang Lini, Renee  
Approved Signatory

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Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA12-005130.001	Black plastic bottle
2	SHA12-005130.002	Translucent silicone rubber ring
3	SHA12-005130.003	Black rubber on lid

### Overall migration

Test Requested : For sample 001: To determine the Overall Migration for compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on plastic materials and articles intended to come into contact with food.

For sample 002: In accordance with Council of Europe Resolution AP (2004) 5 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.

For material: Silicone rubber – Overall migration test.

For sample 003: In accordance with Council of Europe Resolution AP (2004) 4 and 93/11/EEC and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.

For material: Rubber – Overall migration test.

Test Method : With reference to EN1186-1:2002 for selection of conditions and test method;  
For samples 002~003: EN1186-3:2002 aqueous food simulants by total immersion method;  
For sample 001: EN1186-9:2002 aqueous food simulants by article filling method.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 001</u> <u>Overall Migration</u>
Deionized Water	4.0hr	100°C	10 mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
3% Acetic Acid (W/V) Aqueous Solution	4.0hr	100°C	10 mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 002</u> <u>Overall Migration</u>
Deionized Water	4.0hr	100°C	60mg/kg	<20mg/kg
3% Acetic Acid (W/V) Aqueous Solution	4.0hr	100°C	60mg/kg	<20mg/kg

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 003</u> <u>Overall Migration</u>
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Deionized Water	4.0hr	100°C	60mg/kg	<20mg/kg
3% Acetic Acid (W/V) Aqueous Solution	4.0hr	100°C	60mg/kg	<20mg/kg

### Notes :

- (1) mg/dm<sup>2</sup>=milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C=degree Celsius
- (4) <= less than
- (5) Analytical tolerance of aqueous simulants is 1 mg/dm<sup>2</sup>or 6mg/kg
- (6) Test condition & simulant were specified by client.
- (7) For samples 002~003: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. Report the 3rd extractive result

### Specific Migration of Primary Aromatic Amine

Test Requested : In accordance with Council of Europe Resolution AP (2004) 4 and 93/11/EEC and and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.

For material: Rubber – Specific Migration of primary Aromatic Amine.

Test Method : Sample preparation with reference to EN 13130-1: 2004 with selection of simulant and condition, followed by analysis by UV-Vis.

### Sample 003

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 100 °C 4.0 hr

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test Result</u>
Specific Migration of Primary Aromatic Amine	ND	mg/kg	0.01	ND

### Notes :

- (1) mg/kg = milligram per kilogram
- (2) ND = Not detected
- (3) Test condition & simulant were specified by client.

### Specific Migration of Heavy Metal

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Test Requested : To determine the Specific Migration of Heavy Metal for compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on plastic materials and articles intended to come into contact with food.

Test Method : Sample preparation 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 : 100 °C 4.0 hr

<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	0.05	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) MDL = Method Detection Limit
- (2) ND = Not Detected (< MDL)
- (3) Test condition & simulant were specified by client.

### Nitrosamines and Nitrosatable substances

Test Requested : In accordance with Council of Europe Resolution AP (2004) 4 and 93/11/EEC and and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.

For material: Rubber –Nitrosamine and Nitrosatable content.

Test Method : Sample preparation with reference to EN 12868:1999. Analysis was performed by GC-NPD and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Nitrosamines	0.01	mg/kg	0.01	ND
Nitrosatable substances	0.1	mg/kg	0.1	ND

Notes :

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(1) Nitrosamines tested: N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPIP), N-nitrosopyrrolidine (NPYR), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBzA), N-nitroso-N-methyl-N-phenylamine (NMPPhA), N-nitroso-N-ethyl-N-phenylamine (NEPhA) and N-nitrosodiisobutylamine (NDiBA).

(2) The specified maximum permissible limits are quoted from 93/11/EEC Directive.

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Sample photo:



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SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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