

Test Report

SUN-FLY INT'L BUSINESS DEVELOPMENT LTD.
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 CHINA, 510660

This report is to supersede test report CANHG1408191802 A01.

The following sample(s) was/were submitted and identified on behalf of the clients as : Polymer White Plate

SGS Job No. : GZHG1405019024OT - GZ
 Tested Sample Info. : Polymer White Plate
 Client Ref. Info. : Film Phone Case, Polymer Phone Case, 11oz. Polymer Mug, Polymer Travel Mug, Polymer Latte Mug, 6oz. Coffee Set, Kid Water Bottle, Polymer Coaster, Polymer Jigsaw Puzzle, Double Wall Tumbler, Sublimation Photo Tumbler, Sublimation Mini Speaker
 Date of Sample Received : 28 May 2014
 Testing Period : 28 May 2014 - 13 Oct 2014
 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.
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Overall migration	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test	PASS
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments –Specific Migration of Acetaldehyde	PASS
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments –Specific Migration of Terephthalic Acid	PASS
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments–Specific Migration of Heavy Metal	PASS
Verification for label claim validity - Bisphenol A free by Total Content of Bisphenol A	PASS
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Specific migration of 1,4-Butanediol	PASS



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Overall conclusion :

When tested as specified, the tested parameters comply with the requirement stating under Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.

Signed for and on behalf of
SGS-CSTC Ltd.



Alpher Qiu
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN14-081918.001	White plastic plate

Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Overall migration

Test Requested : As specified by client, to determine Overall migration from plastic used in contact with food for compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Test Method : With reference to EN1186-1:2002 for selection of conditions and test method;
or EN1186-3:2002 aqueous food simulants by total immersion method;
or EN 1186-14:2002 substitute test.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>	<u>Comment</u>
Distilled Water	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
50% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
95% Ethanol (V/V) Aqueous Solution (Rectified Olive Oil Substitute)	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
Isooctane (Rectified Olive Oil Substitute)	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

1. mg/dm² =milligram per square decimeter
2. °C = degree Celsius
3. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
4. 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.



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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments—Sensorial examination odour and taste test

Test Requested : As specified by client, to determine Sensorial examination odour and taste from the submitted sample used in contact with food for compliance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments.

Test Method : With reference to DIN10955:2004.
 Test condition: 70°C 2.0hr(s);
 Test media: Distilled water;
 No.of panelist: 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0

Comment

PASS

Notes :

Scale evaluation:

- 0: No perceptible odour
- 1: Odour just perceptible (still difficult to define)
- 2: Moderate odour
- 3: Moderately strong odour
- 4: Strong odour

Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments -Specific Migration of Acetaldehyde

Test Requested : As specified by client, to determine Specific Migration of Acetaldehyde from plastic used in contact with food for compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Test Method : With reference to EN13130-1:2004 for selection of test method, analysis was performed by HPLC-DAD.



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Sample 001

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

Test Condition : 70°C 2.0hr(s)

<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 Acetaldehyde Comment	6.0	mg/kg	1.0	ND PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)
5. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
6. 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.

Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments –Specific Migration of Terephthalic Acid

Test Requested : As specified by client, to determine Specific Migration of Terephthalic Acid from plastic used in contact with food for compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Test Method : With reference to EN13130-1:2004 for selection of test method, analysis was performed by HPLC-DAD.

Sample 001

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

Test Condition : 70°C 2.0hr(s)

<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 Terephthalic Acid Comment	7.5	mg/kg	1.0	ND PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius



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- 3. MDL=Method Detection Limit
- 4. ND = Not Detected(less than MDL)
- 5. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- 6. 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.

Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments–Specific Migration of Heavy Metal

Test Requested : As specified by client, to determine Specific Migration of Heavy Metal from plastic used in contact with food for compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011with amendments.

Test Method : With reference to EN13130-1:2004 for selection of test method, analysis was performed by ICP-OES.

Sample 001

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

Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Extractable Antimony	0.04	mg/kg	0.01	ND
Extractable Barium	1	mg/kg	0.25	ND
Extractable Cobalt	0.05	mg/kg	0.01	ND
Extractable Copper	5	mg/kg	0.25	ND
Extractable Iron	48	mg/kg	0.25	ND
Extractable Lithium	0.6	mg/kg	0.5	ND
Extractable Manganese	0.6	mg/kg	0.25	ND
Extractable Zinc	25	mg/kg	0.5	ND

Comment

PASS

Notes :

- 1. mg/kg = milligram per kilogram of foodstuff in contact with
- 2. °C = degree Celsius
- 3. MDL=Method Detection Limit
- 4. ND= Not Detected(less than MDL)
- 5. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- 6. 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.



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Verification for label claim validity - Bisphenol A free by Total Content of Bisphenol A

Test Requested : As specified by client, to determine Total Content of Bisphenol A from submitted sample(s) used in contact with food for Verification for label claim validity.

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009. Analysis was performed by LC-MS-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Total content of Bisphenol A	mg/kg	0.1	ND
Comment			PASS

Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)

Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Specific migration of 1,4-Butanediol

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine specific migration of 1,4-Butanediol.

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

Sample 001

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

Test Condition : 70°C 240hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Specific migration of 1,4-Butanediol	5	mg/kg	1	ND

Notes :

- (1) mg/kg = milligram per kilogram
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) Results shown were conducted by SGS SH LTD.



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