

Test Report

No. CANEC130550451

Date: 06 May 2018

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ASIA PACIFIC INDUSTRY GROUP CO., LIMITED

NO.339, LUZHOU AVE.,BAOHE DIST., 230051, HEFEI, ANHUI,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : POLYESTER FILM

SGS Job No. : CP13-019092 - GZ
Country of Destination : EU, USA
Client Ref. Info. : Product material: POLYESTER FILM
Date of Sample Received : 18 Apr 2018
Testing Period : 18 Apr 2018 - 26 Apr 2018
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
FDA 21 CFR 177.1630—Chloroform-soluble extractive residues	PASS
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments—Overall migration in specified foodstuffs	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation—Specific migration of Melamine	PASS
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments—Specific Migration of Heavy Metal	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation —Residual vinyl chloride monomer	PASS

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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
1	CAN13-054008.001	Transparent plastic film
2	CAN13-054008.002	Transparent plastic film

FDA 21 CFR 177.1630—Chloroform-soluble extractive residues

Test Requested : As specified by client, to determine Chloroform-soluble extractive residues from polyethylene terephthalate polymers used in contact with food for compliance with Food and Drug Administration Regulations.

Test Method : With reference to US FDA 21 CFR 177.1630.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001</u>	<u>Comment</u>
Distilled Water	2hr(s)	250°F	0.5mg/sq.in	<0.1mg/sq. in	PASS
n-Heptane	2hr(s)	150°F	0.5mg/sq.in	<0.1mg/sq. in	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002</u>	<u>Comment</u>
Distilled Water	2hr(s)	250°F	0.5mg/sq.in	<0.1mg/sq. in	PASS
n-Heptane	2hr(s)	150°F	0.5mg/sq.in	<0.1mg/sq. in	PASS

Notes :

mg/inch²= milligram per square inch

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

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 test method;
or EN 1186-3:2002 aqueous food simulants by total immersion method;
or EN1186-2:2002 olive oil by total immersion method;

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<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>	<u>Comment</u>
Distilled Water	24.0hr(s)	40 °C	10mg/dm ²	<3.0mg/dm ²	PASS
50% Ethanol (V/V) Aqueous Solution	24.0hr(s)	40 °C	10mg/dm ²	3.6mg/dm ²	PASS
Rectified Olive Oil	24.0hr(s)	40 °C	10mg/dm ²	<3.0mg/dm ²	PASS

<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>	<u>Comment</u>
Distilled Water	24.0hr(s)	40 °C	10mg/dm ²	<3.0mg/dm ²	PASS
50% Ethanol (V/V) Aqueous Solution	24.0hr(s)	40 °C	10mg/dm ²	<3.0mg/dm ²	PASS
Rectified Olive Oil	24.0hr(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

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation-Specific migration of Melamine

Test Requested : As specified by client, to determine Specific migration of Melamine from plastic 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, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation.

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

Sample 001

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

Test Condition : 40 °C 24.0 hr(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 Melamine	2.5	mg/kg	2.0	ND
Comment				PASS

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Sample 002

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

Test Condition : 40 °C 24.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Specific migration of Melamine	2.5	mg/kg	2.0	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.

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 2011 with amendments.

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

Sample 001

Simulant Used : Olive Oil

Test Condition : 40 °C 24.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
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

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Extractable Manganese	0.6	mg/kg	0.25	ND
Extractable Zinc	25	mg/kg	0.5	ND
Comment				PASS

Sample 002

Simulant Used : Olive Oil

Test Condition : 40 °C 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
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

Sample 001

Simulant Used : Distilled water

Test Condition : 40 °C 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
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

Sample 002

Simulant Used : Distilled water

Test Condition : 40 °C 24.0 hr

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<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
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.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation –Residual vinyl chloride monomer

Test Requested : As specified by client, to determine Residual vinyl chloride monomer from plastic 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, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation.

Test Method : SGS In house method (GZTC CHEM-TOP-049-01), analysis was performed by HS-GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>00</u>
VCM(Vinyl Chloride Monomer)	1	mg/kg	0.5	ND	ND
Comment				PASS	PASS

Notes :

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

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Sample photo:



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