


Test Report

No. NGBHG1800059901

Date: 19 Jan 2018

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

SGS Job No. : NBHL1801000111CW - NB

Date of Sample Received : 04 Jan 2018

Testing Period : 04 Jan 2018 - 19 Jan 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
Overall migration	See Results
Specific migration of heavy metal	See Results
Total content of bisphenol A	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Tony Li

Tony Li
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	NGB18-000599.001	Violet plastic mesh bag	HDPE
SN2	NGB18-000599.002	Yellow plastic mesh bag	HDPE
SN3	NGB18-000599.003	Beetroot plastic mesh bag	HDPE
SN4	NGB18-000599.004	Red plastic mesh bag	HDPE
SN5	NGB18-000599.005	Milky white plastic mesh bag	HDPE

Remarks :

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

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 1186-3: 2002 aqueous food simulants by total immersion method.

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001 Overall Migration
10% Ethanol (V/V) Aqueous Solution	240.0hr(s)	40°C	10mg/dm ²	4.7mg/dm ²
Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 002 Overall Migration
10% Ethanol (V/V) Aqueous Solution	240.0hr(s)	40°C	10mg/dm ²	3.0mg/dm ²
Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 003 Overall Migration
10% Ethanol (V/V) Aqueous Solution	240.0hr(s)	40°C	10mg/dm ²	6.1mg/dm ² ♦



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Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 004 Overall Migration
10% Ethanol (V/V) Aqueous Solution	240.0hr(s)	40°C	10mg/dm ²	6.2mg/dm ² ♦

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 005 Overall Migration
10% Ethanol (V/V) Aqueous Solution	240.0hr(s)	40°C	10mg/dm ²	8.7mg/dm ²

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm².
- (2) Test condition & simulant were specified by client.
- (3) ♦Visible color migration in the simulant
- (4) The Area of sample cannot be accurately calculated, the test result is only for reference

Specific migration of heavy metal

Test Requested : In accordance with Commission Regulation (EU) 2016/1416 amending 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 240.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/volume	-	dm ² /kg	-	6.0
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	5	mg/kg	0.5	ND
Aluminium (Al)	1	mg/kg	0.1	ND



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Sample 002

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

Test Condition : 40 °C 240.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/volume	-	dm ² /kg	-	6.0
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	5	mg/kg	0.5	ND
Aluminium (Al)	1	mg/kg	0.1	ND

Sample 003

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

Test Condition : 40 °C 240.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/volume	-	dm ² /kg	-	6.0
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	5	mg/kg	0.5	ND
Aluminium (Al)	1	mg/kg	0.1	ND

Sample 004

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

Test Condition : 40 °C 240.0 hr(s)



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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/volume	-	dm ² /kg	-	6.0
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	5	mg/kg	0.5	ND
Aluminium (Al)	1	mg/kg	0.1	ND

Sample 005

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

Test Condition : 40 °C 240.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/volume	-	dm ² /kg	-	6.0
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	5	mg/kg	0.5	ND
Aluminium (Al)	1	mg/kg	0.1	ND

Notes :

- (1) Test condition & simulant were specified by client.
- (2) The Area of sample cannot be accurately calculated, the test result is only for reference

Total content of bisphenol A

Test Requested : In accordance with Commission Implementing Regulation (EU) 321/2011 amending Regulation (EU) 10/2011 of 14 January 2011, to determine Total content of bisphenol A



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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 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-FLD/HPLC-MS.

Test Item(s)	Limit	Unit	MDL	001	002	003
Bisphenol-A	0.1	mg/kg	0.1	ND	ND	ND
Test Item(s)	Limit	Unit	MDL	004	005	
Bisphenol-A	0.1	mg/kg	0.1	ND	ND	



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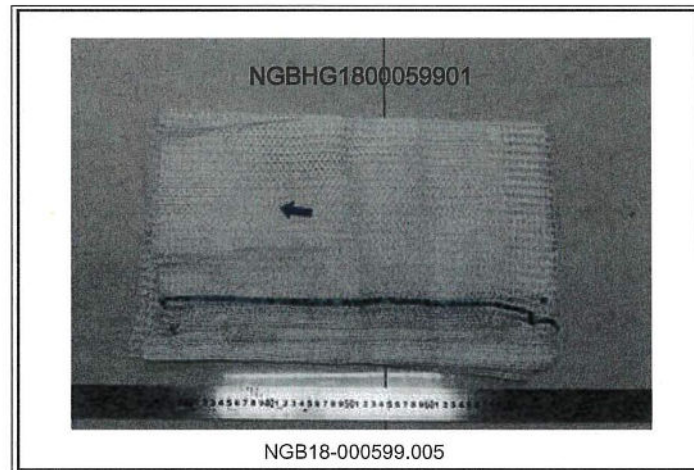


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