



COSMO GROUP ASIA

Technical Report: (8816)228-0160

Aug 24, 2016

Date Received: Aug 15, 2016

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COSMO GROUP ASIA
2508 PACIFIC PLAZA 410 DES VOEUX RD WEST

Sample Description:	LUNCH BAG	Sample Size:	N/A
Vendor:	N/A	Style No(s):	N/A
Manufacturer:	N/A	SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	N/A
Labeled Age Grade:	N/A	Ref #:	N/A
Appropriate Age Grade:	N/A	Country of Origin:	N/A
Client Specified Age Grade:	3+	Assortment No.:	N/A
Tested Age Grade:	N/A	Test Finished Date:	AUG 24, 2016
UPC Code:	N/A		
Test Starting Date:	AUG 15, 2016		

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments.
- Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments.
- Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Draft Amendment of Commission Regulation (EU) No 10/2011.

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Harvey Xue
Assistant Manager, Analytical Lab

RT/ML

REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 85935656 Ext. 8819 CPSAnalytical.DG@cn.bureauveritas.com

Business Contact: (86) 0769 85893595

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Tested Component(s) Description List:

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)	Client Claimed Material
I001	Grey plastic	Lining	-	PVEA
I002	Black plastic	Mesh pocket	-	Polyester
I003	Black plastic	Elastic band	-	Polyester



RESULTS:

Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Condition: OM 3: 2 h at 70 °C (3% Acetic acid)

Simulant Used	Unit	Result		Maximum Allowable Limit	Analytical Tolerance
		I001	I002		
Food contact surface area	dm ²	0.6	0.6	-	-
Volume of stimulant used	mL	100	100	-	-
3% Acetic acid	mg/dm ²	<5	<5	10	+2
Conclusion	-	PASS	PASS	-	-

Simulant Used	Unit	Result	Maximum Allowable Limit	Analytical Tolerance
		I003		
Food contact surface area	dm ²	0.6	-	-
Volume of stimulant used	mL	100	-	-
3% Acetic acid	mg/dm ²	<5	10	+2
Conclusion	-	PASS	-	-

Note: "<" = less than
 mg/dm² = milligram per square decimeter

Method: EN 1186-1: 2002;

- Remark:
- 1) The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory statutes.
 - 2) For article intended for repeated use, the migration tests are carried out three times on the same test sample and the third test result is shown in result table.
 - 3) The test simulation was specified by client

RESULTS:

Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Condition: 24 h at 40 °C (3% Acetic acid)

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I001	I002	
Food contact surface area	-	dm ²	0.6	0.6	-
Volume of stimulant used	-	mL	100	100	-
Barium (Ba)	3% Acetic acid	mg/kg	<0.1	<0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	<0.005	<0.005	0.05
Copper (Cu)	3% Acetic acid	mg/kg	<0.5	<0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	<0.1	<0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	<0.1	<0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	<3	25
Conclusion	-	-	PASS	PASS	-

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			I003	
Food contact surface area	-	dm ²	0.6	-
Volume of stimulant used	-	mL	100	-
Barium (Ba)	3% Acetic acid	mg/kg	<0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	<0.005	0.05
Copper (Cu)	3% Acetic acid	mg/kg	<0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	<0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	<0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	25
Conclusion	-	-	PASS	-

Note: "<" = less than
 mg/kg = milligram per kilogram
 * Zn limit is 5 mg/kg in Draft amendment of Commission Regulation (EU) No 10/2011.

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Remark: 1) The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory statutes.
 2) For article intended for repeated use, the migration tests are carried out three times on the same test sample and the third test result is shown in result table.



RESULTS:

Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Draft Amendment of Commission Regulation (EU) No 10/2011

Test Condition: 24 h at 40 °C (3% Acetic acid)

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I001	I002	
Food contact surface area	-	dm ²	0.6	0.6	-
Volume of stimulant used	-	mL / g	100	100	-
Aluminum (Al)	3% Acetic acid	mg/kg	<0.1	<0.1	1
Nickel (Ni)	3% Acetic acid	mg/kg	<0.002	<0.002	0.02
Conclusion	-	-	PASS	PASS	-

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			I003	
Food contact surface area	-	dm ²	0.6	-
Volume of stimulant used	-	mL / g	100	-
Aluminum (Al)	3% Acetic acid	mg/kg	<0.1	1
Nickel (Ni)	3% Acetic acid	mg/kg	<0.002	0.02
Conclusion	-	-	PASS	-

Note: “<” = less than
 mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Remark: 1) The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory statutes.
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RESULTS:



END OF REPORT