



## FLASHBAY ELECTRONICS

**Technical Report:** (8819)338-0057(A-R1)

Nov 18, 2020

Date Received: Dec 4, 2019

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FLASHBAY ELECTRONICS  
BUILDING 2,JIXUN INDUSTRIAL PARK,DONG'AO  
VILLAGE,SHATIAN TOWN,HUIYANG  
DISTRICT,HUIZHOU CITY,GUANGDONG  
PROVINCE,P.R.CHINA

Sample Description:	WAVE, PACIFIC, REFRESH, FIT, SHAKER.	Sample Size:	43
Vendor:	N/A	Style No(s):	NOT PROVIDE
Manufacturer:	N/A	SKN/SKU No.:	NOT PROVIDE
Labeled Age Grade:	NOT RECORD	PO No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	Ref #:	NOT PROVIDE
Client Specified Age Grade:	NOT SPECIFIED		
Grade:			
Tested Age Grade:	N/A	Country of Origin:	NOT PROVIDE
UPC Code:	N/A	Assortment No.:	NOT PROVIDE
Test Starting Date:	DEC 4, 2019	Test Finished Date:	NOV 3, 2020

### **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.

To be continued



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### **REMARK**

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

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**EXECUTIVE SUMMARY:**

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

- Specific Migration of Primary Aromatic Amine for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments.
- Overall Migration Test for Silicon in Contact with Foodstuffs – Council of Europe, Resolution ResAP(2004)5.

**Tested Component(s) Description List:**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)	Client Claimed Material
I001	Transparent plastic	Nozzle	-	Tritan
I002	Transparent plastic	Straw	-	PP-HO
I003	Red plastic	Lid	-	PP-HO
I004	Transparent plastic	Bottle	-	PP-HO
I005	Blue silicone	Suction nozzle plug	-	Silicone
I006	White silicone	Suction nozzle plug	-	Silicone
I007	Transparent silicone	Gasket	-	Silicone
I008	Transparent plastic	Bottle	-	Tritan
I009	Red plastic	Lid	-	PPCO

Remark:

The items 009 was provided by client dated on Oct 26, 2020.



**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 / 50% Ethanol)

Simulant Used	Unit	Result		Maximum Allowable Limit	Analytical Tolerance
		I001	I002		
Food contact surface area	dm <sup>2</sup>	0.6	0.6	-	-
Volume of stimulant used	mL	100	100	-	-
50% Ethanol	mg/dm <sup>2</sup>	<5	<5	10	+2
3% Acetic acid	mg/dm <sup>2</sup>	<5	<5		
<b>Conclusion</b>	-	PASS	PASS	-	-

Simulant Used	Unit	Result		Maximum Allowable Limit	Analytical Tolerance
		I003	I004		
Food contact surface area	dm <sup>2</sup>	0.6	0.6	-	-
Volume of stimulant used	mL	100	100	-	-
50% Ethanol	mg/dm <sup>2</sup>	<5	<5	10	+2
3% Acetic acid	mg/dm <sup>2</sup>	<5	<5		
<b>Conclusion</b>	-	PASS	PASS	-	-

Simulant Used	Unit	Result		Maximum Allowable Limit	Analytical Tolerance
		I008	I009		
Food contact surface area	dm <sup>2</sup>	0.6	0.6	-	-
Volume of stimulant used	mL	100	100	-	-
50% Ethanol	mg/dm <sup>2</sup>	<5	<5	10	+2
3% Acetic acid	mg/dm <sup>2</sup>	<5	<5		
<b>Conclusion</b>	-	PASS	PASS	-	-

Note: “<” = less than  
 mg/dm<sup>2</sup> = milligram per square decimeter  
 mg/kg = milligram per kilogram

Method: EN 1186-1: 2002;

Remark: 1) The migration test is carried out according to EU 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 – Commission Regulation (EU) No. 10/2011 and Its Amendments**

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

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I001	I002	
Food contact surface area	-	dm <sup>2</sup>	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	5
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
<b>Conclusion</b>	-	-	PASS	PASS	-

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I003	I004	
Food contact surface area	-	dm <sup>2</sup>	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	5
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
<b>Conclusion</b>	-	-	PASS	PASS	-



**RESULTS:**

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I008	I009	
Food contact surface area	-	dm <sup>2</sup>	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	5
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
<b>Conclusion</b>	-	-	PASS	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 EU 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 Primary Aromatic Amine for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments**

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

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I001	I002	
Food contact surface area	-	dm <sup>2</sup>	0.6	0.6	-
Volume of stimulant used	-	mL	100	100	-
Primary Aromatic Amine	3% Acetic acid	mg/kg	<0.01	<0.01	0.01
<b>Conclusion</b>	-	-	PASS	PASS	-

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I003	I004	
Food contact surface area	-	dm <sup>2</sup>	0.6	0.6	-
Volume of stimulant used	-	mL	100	100	-
Primary Aromatic Amine	3% Acetic acid	mg/kg	<0.01	<0.01	0.01
<b>Conclusion</b>	-	-	PASS	PASS	-

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I008	I009	
Food contact surface area	-	dm <sup>2</sup>	0.6	0.6	-
Volume of stimulant used	-	mL	100	100	-
Primary Aromatic Amine	3% Acetic acid	mg/kg	<0.01	<0.01	0.01
<b>Conclusion</b>	-	-	PASS	PASS	-

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

Method: EN 13130-1: 2004, LC-MS/ LC-MS/MS analysis.

Remark: 1) The migration test is carried out according to EU regulation No. 10/2011 and the corresponding regulatory statutes.  
 2) For article intended for repeated use, only single determination is carried out in the migration tests and the test result is shown in result table.



**RESULTS:**

**Overall Migration Test for Silicon in Contact with Foodstuffs – Council of Europe, Resolution ResAP(2004)5**

Test Condition: OM 3: 2 h at 70 °C (3% Acetic acid / 50% Ethanol)

Simulant Used	Unit	Result		Maximum Allowable Limit	Analytical Tolerance
		I005	I006		
Food contact surface area	dm <sup>2</sup>	0.6	0.6	-	-
Volume of stimulant used	mL	100	100	-	-
50% Ethanol	mg/dm <sup>2</sup>	<5	<5	10	+2
3% Acetic acid	mg/dm <sup>2</sup>	<5	<5		
<b>Conclusion</b>	-	PASS	PASS	-	-

Simulant Used	Unit	Result	Maximum Allowable Limit	Analytical Tolerance
		I007		
Food contact surface area	dm <sup>2</sup>	0.6	-	-
Volume of stimulant used	mL	100	-	-
50% Ethanol	mg/dm <sup>2</sup>	<5	10	+2
3% Acetic acid	mg/dm <sup>2</sup>	<5		
<b>Conclusion</b>	-	PASS	-	-

Note: "<" = less than  
 mg/dm<sup>2</sup> = milligram per square decimeter  
 mg/kg = milligram per kilogram

Method: EN 1186-1: 2002;

Remark: 1) The migration test is carried out according to EU 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) This report is to supersede BV(Dong guan) report No. (8819)338-0057(A) dated on Feb 24, 2020..

**RESULTS:**



END OF REPORT