

Date:

Jun 11, 2025

FLASHBAY ELECTRONICS Applicant:

BUILDING2, JIXUN INDUSTRIAL PARK, XINJIAO, DONG'AO VILLAGE, SHATIAN TOWN, HUIYANG DISTRICT, HUIZHOU CITY, GUANGDONG PROVINCE,

P. R. CHINA

Sample Description:

One (1) style of submitted sample said to be : Item Name : Travel Co **Travel Cups** Item No. PolarBear (PB)

China

Country of Origin
Date Sample Received May 27, 2025 & May 30, 2025 Testing Period May 27, 2025 ~ Jun 11, 2025

# Tested sample



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued

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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

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Conclusion:

Tested sample Tested component(s) of submitted sample(s)

Standard/Testing Item European Commission Regulation No. 10/2011 and Amendment No. 2016/1416 and No 2017/752 and No. 2020/1245 and Regulation 1935/2004 on overall migration

Council Europe Resolution AP (2004) 5 on Silicones Used for **Pass** Food Contact Applications on Overall Migration

EDQM Technical Guide on Metals and Alloys Used in Food Contact Materials and Articles, 2024, 2<sup>nd</sup> Edition on specific migration of heavy metal

European Commission Regulation No. 10/2011 Annex II and Amendment No. 2016/1416 and No. 2017/752 and No. 2020/1245 and Regulation 1935/2004 on specific migration of heavy metal content

European Commission Regulation No. 10/2011 Annex I and II and Amendments No. 2020/1245 and Regulation 1935/2004 on specific migration of Primary Aromatic Amines

**Pass** 

Result

**Pass** 

**Pass** 

**Pass** 

Authorized by:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch, Hardlines

Victor T.J Wang General Manager

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## **Tests Conducted**

1 European Commission Regulation No. 10/2011 and Amendment No. 2016/1416 and No 2017/752 and No. 2020/1245 and Regulation 1935/2004 on Overall Migration

Test method: With reference to Commission Regulation (EU) No. 10/2011 and its amendments, and EN 1186-3:2022 overall migration in evaporable simulants / EN 1186-2: 2022 overall migration in vegetable oils.

#### I. Test condition:

Tested component	Food simulant	Time(hour)	Temperature(°C)
	10% (v/v) Ethanol	2	100
(1) (4)	3% (w/v) Acetic acid	2	100
(1), (4)	95%(v/v) Ethanol	4	60
	Iso –octane	2	60

#### Test Results: II.

Tested component(1), (4):

Food Cimulant		Result(mg/dm²)	Detection Limit	Limit	
Food Simulant	1 <sup>st</sup> migration	2 <sup>nd</sup> migration	3 <sup>rd</sup> migration	(mg/dm²)	(mg/dm²)
10% (v/v) Ethanol	ND	ND	ND	3	10
3% (w/v) Acetic acid	ND	ND	ND	3	10
95%(v/v) Ethanol	ND	ND	ND	3	10
lso –octane	ND	ND	ND	3	10

ND = Not detected (less than detection limit)

Ratio of food contact surface area to volume used to establish the compliance of material or article:

Component (1) =  $1 \text{ dm}_{a}^{2}$ : 1071 mL Component  $(4) = 1 \text{ dm}^2$ : 677 mL

Verification of compliance with the limit was based on the result obtained from  $3^{rd}$  migration and results of  $3^{rd}$  migration  $< 2^{nd}$  migration  $< 1^{st}$  migration.

The limit of 60mg/kg was quoted for samples intended for infants and young children.

One migration was conducted per client's request, however, the result met the migration limit.

Tested component(s): See component list in last section of this report.

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# **Tests Conducted**

#### Overall Migration Test for Silicones 2

As per Council Europe Resolution AP (2004) 5 on silicones used for food contact applications, selection of test condition & food simulants by Commission Regulation (EU) No. 10/2011 and its amendments.

## Test condition:

Aqueous food simulant:	
Test no.	Time and temperature
OM5	2 hours at 100 °C

Fatty food simulant:	
Test no.	Time and temperature
OM5	1 hour at 121 °C

Tested component	Food simulant	Time(hour)	Temperature(°C)
	10% (v/v) Ethanol	2	100
(2)	3% (w/v) Acetic acid	2	100
(2)	95%(v/v) Ethanol	4	60
	Iso –octane	2	60

## Test results

Food Simulant	Result(mg/dm²) (2)	Detection Limit (mg/dm²)	<u>Limit</u> (mg/dm²)
10% (v/v) Ethanol	ND	1	10
3% (w/v) Acetic acid	ND	1	10
95%(v/v) Ethanol	ND	1	10
Iso –octane	ND	1	10

ND = Not detected (less than detection limit)

Tested component(s): See component list in last section of this report.



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## **Tests Conducted**

3 EDQM Technical Guide on Metals and Alloys Used in Food Contact Materials and Articles, 2024, 2<sup>nd</sup> Edition on Specific Migration of Heavy Metal

Test method: With reference to EDQM Technical Guide on Metals and Alloys Used in Food Contact Materials and Articles, 2024, 2<sup>nd</sup> Edition. Migration test was carried out and heavy metal content was determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

I. Test Condition:

Temperature: 40 °C Time: 24 hours

II. Test Result:

Food simulant: Citric acid 0.5%(m/v)

Articles for repeated use:

	Articles to Tepeated use.						
Tested component	(3):		1 5 1, 481				
<u>Elements</u>	Result 1 <sup>st</sup> test (mg/kg)	Result 2 <sup>nd</sup> test (mg/kg)	Result 1 <sup>st</sup> test+Result 2 <sup>nd</sup> test (mg/kg)	Result 3 <sup>rd</sup> test (mg/kg)	Detection Limit (mg/kg)	7*Limit (mg/kg)	<u>Limit</u> (mg/kg)
Silver (Ag)	ND	ND	ND	ND	0.05	0.56	0.08
Aluminium (Al)	ND	ND	ND	ND	1	35	5
Chromium (III) (Cr)		ND	ND	ND	0.02	7	1
Cobalt (Co)	ND	ND	ND	ND	0.01	0.14	0.02
Copper (Cu)	ND	ND	ND	ND	0.5	28	4
Iron (Fe)	ND	ND	ND	ND	1	280	40
Manganese (Mn)	ND	ND	ND	ND	0.1	3.85	0.55
Molybdenum(Mo)	ND	ND	ND	ND	0.02	0.84	0.12
Nickel (Ni)	ND	ND	ND	ND	0.1	0.98	0.14
Tin (Sn)	ND	ND	ND	ND	10	700	100
Vanadium (V)	ND	ND	ND	ND	0.005	0.07	0.01
Zinc (Zn)	ND	ND	ND	ND	1	35	5
Antimony (Sb)	ND	ND	ND	ND	0.01	0.28	0.04
Arsenic (As)	ND	ND	ND	ND	0.001	0.014	0.002
Barium (Ba)	ND	ND	ND	ND	0.1	8.4	1.2
Beryllium (Be)	ND	ND	ND	ND	0.01	0.07	0.01
Cadmium (Cd)	ND	ND	ND	ND	0.001	0.035	0.005
Lead (Pb)	ND	ND	ND	ND	0.005	0.070	0.010
Lithium (Li)	ND	ND	ND	ND	0.010	0.336	0.048
Mercury (Hg)	ND	ND	ND	ND	0.003	0.021	0.003
Thallium (TI)	ND	ND	ND	ND	0.001	0.007	0.001
Zirconium (Zr)	ND	ND	ND	ND	0.1	14	2
Magnesium(Mg)	ND	ND	ND	ND	1	-	-
Titanium(Ti)	ND	ND	ND	ND	1	-	-



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## **Tests Conducted**

ND = Not detected (less than detection limit)

Remark: The submitted sample is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1<sup>st</sup> test + Result 2<sup>nd</sup> test < 7 \* limit) and the Result 3<sup>rd</sup> test shouldn't exceed the limit.

Ratio of food contact surface area to volume of component (3) used to establish the compliance of material or article =  $1 \text{ dm}^2$ : 154 mL.

Tested component(s): See component list in the last section of this report.

European Commission Regulation No. 10/2011 Annex II and Amendment No. 2016/1416 and No. 4 2017/752 and No. 2020/1245 and Regulation 1935/2004 on Specific Migration of Heavy Metal Content

Test method: With reference to Commission Regulation (EU) No. 10/2011 and its amendments.

Test condition:

Food simulant: 3% (w/v) Acetic acid

Temperature: 40°C Time: 24 hours

II. Test result:

Tested component(1), (4):

rested component(1), (4).					
Element		Result (mg/kg)	<b>Detection limit</b>	Limit (mg/kg)	
Element	1 <sup>st</sup> migration	2 <sup>na</sup> migration	3 <sup>rd</sup> migration	<u>(mg/kg)</u>	Limit (mg/kg)
Aluminum(Al)	ND	ND	ND	0.1	1
Antimony(Sb)	ND	ND	ND	0.01	0.04
Arsenic(As)	ND	ND	ND	0.01	ND
Barium(Ba)	ND	ND	ND	0.1	1
Cadmium(Cd)	ND	ND	ND	0.002	ND
Chromium(Cr)	ND	ND	ND	0.01	ND
Cobalt(Co)	ND	ND	ND	0.03	0.05
Copper(Cu)	ND	ND	ND	1	5
Iron(Fe)	ND	ND	ND	5	48
Lead(Pb)	ND	ND	ND	0.01	ND
Lithium(Li)	ND	ND	ND	0.1	0.6
Manganese(Mn)	ND	ND	ND	0.1	0.6
Mercury(Hg)	ND	ND	ND	0.01	ND
Nickel(Ni)	ND	ND	ND	0.01	0.02
Zinc(Zn)	ND	ND	ND	1	5
Europium(Eu)	ND	ND	ND	0.01	0.05
Gadolinium(Gd)	ND	ND	ND	0.01	0.05
Lanthanum(La)	ND	ND	ND	0.01	0.05
Terbium(Tb)	ND	ND	ND	0.01	0.05
Sum of (Eu, Gd, La, Tb)	ND	ND	ND	0.04	0.05



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# **Tests Conducted**

ND = Not detected (less than detection limit)

Ratio of food contact surface area to volume:

•	tallo of rood contact carre	ace area to veraine.
	Tested component	<u>Ratio</u>
	(1)	0.93 dm <sup>2</sup> /kg
	(4)	1.48 dm²/kg

Verification of compliance with the limit was based on the result obtained from  $3^{rd}$  migration and results of  $3^{rd}$  migration  $< 2^{nd}$  migration  $< 1^{st}$  migration. For substances which limit is "ND", the compliance was based on the  $1^{st}$  migration.

Tested component(s): See component list in last section of this report.

5 European Commission Regulation No. 10/2011 Annex I and II and Amendments No. 2020/1245 and Regulation 1935/2004 on Specific Migration of Primary Aromatic Amines

Test method: With reference to Commission Regulation (EU) No. 10/2011 and its amendments and JRC Technical Guidelines EUR 24815 EN 2011.

## I. Test condition:

Tested component	Food simulant	Time(hour)	Temperature (°C)	
(1), (4)	3% (w/v) Acetic acid	24	40	

## II. Test Result:

Tested component (1), (4):

	1 (7, )		Result (mg/kg)				Limit
	Test Item	CAS No.	1 <sup>st</sup>	<u>2</u> <sup>na</sup>	3 <sup>rd</sup>	<u>Limit</u>	<u>Limit</u> (mg/kg)
			<u>migration</u>	<u>migration</u>	<u>migration</u>	<u>(mg/kg)</u>	(Hg/Kg)
1	4-Aminodiphenyl	92-67-1	ND	ND	ND	0.002	ND
2	Benzidine	92-87-5	ND	ND	ND	0.002	ND
3	4-Chloro-o-Toluidine	95-69-2	ND	ND	ND	0.002	ND
4	2-Naphthylamine	91-59-8	ND	ND	ND	0.002	ND
5	o-Aminoazotoluene	97-56-3	ND	ND	ND	0.002	ND
6	2-Amino-4- Nitrotoluene	99-55-8	ND	ND	ND	0.002	ND
7	p-Chloroaniline	106-47-8	ND	ND	ND	0.002	ND
8	2,4-Diaminoanisole	615-05-4	ND	ND	ND	0.002	ND
9	4,4'- Diaminodiphenylmeth ane	101-77-9	ND	ND	ND	0.002	ND
10	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	0.002	ND
11	3,3'- Dimethoxybenzidine	119-90-4	ND	ND	ND	0.002	ND
12	3,3'- Dimethylbenzidine	119-93-7	ND	ND	ND	0.002	ND



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## **Tests Conducted**

			F	Result (mg/kg)			Limit
	<u>Test Item</u>	CAS No.	1 <sup>st</sup> migration	2 <sup>na</sup> migration	3 <sup>rd</sup> migration	<u>Limit</u> (mg/kg)	<u>Limit</u> (mg/kg)
13	3,3'-Dimethyl- 4,4'diaminodiphenylm ethane	838-88-0	ND	ND	ND	0.002	ND
14	p-Cresidine	120-71-8	ND	ND	ND	0.002	ND
15	4,4'-Methylene-Bis(2- Chloroaniline)	101-14-4	ND	ND	ND	0.002	ND
16	4,4'-Oxydianiline	101-80-4	ND	ND	ND	0.002	ND
17	4,4'-Thiodianiline	139-65-1	ND	ND	ND	0.002	ND
18	o-Toluidine	95-53-4	ND	ND	ND	0.002	ND
19	2,4-Toluylenediamine	95-80-7	ND	ND	ND	0.002	ND
20	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	0.002	ND
21	o-Anisidine	90-04-0	ND	ND	ND	0.002	ND
22	4-Aminoazobenzene	60-09-3	ND	ND	ND	0.002	ND
23	m-Phenylendiamine	108-45-2	ND	ND	ND	0.002	ND
24	Benzoguanamin	91-76-9	ND	ND	ND	0.05	5
25	4,4'-Methylenebis(3- chloro-2,6- diethylaniline	106246- 33-7	ND	ND	ND	0.01	0.05
26	Total of other primary aromatic amine	-	ND	ND	ND	0.01	0.01

ND = Not detected (less than detection limit)

Other primary aromatic amines are p-Phenylendiamine, Aniline, 2,4-Xylidine, 2,6-Xylidine, 3-Methoxyaniline, 2,6- Toluene-diamine, 1,5-Diaminonaphthalene, 4-Ethoxyaniline, 3-Amino-4methoxybenzanilide, 3-Amino-4-methylbenzamide, 2-Amino-5-methylbenzoic acid

Tested component(s): See component list in last section of the report.

# Component list:

- Black PP plastic (lid, nozzle).
- (2) Semi-transparent white silicone (sealing ring, sealing stopper).
- (3) (4) Silver color stainless steel (inner body).
- Semi-transparent white PE plastic (straw).



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**Tests Conducted** 

## Reference photo



Remark: The products in the reference photo are not tested in this report. It's declared by the applicant that they are the same series of products with the particular tested sample, just included in the report for reference.

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band  $\mathbf{w} = \mathbf{U}$ ) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

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