

## Test Report

Number: GZHH00491197

Applicant: FLASHBAY ELECTRONICS  
BUILDING2 ,JIXUN INDUSTRIAL PARK ,  
XINJIAO ,DONG'AO VILLAGE ,SHATIAN TOWN ,  
HUIYANG DISTRICT ,HUIZHOU CITY ,  
GUANGDONG PROVINCE,P.R.CHINA

Date: Jun 08, 2023

### Sample Description:

Four (4) pieces of submitted sample said to be :  
Item Name : **Water Bottle**  
Item No. : **Traveler /TL**  
Country of Origin : **China**  
Date Sample Received : **Apr 28, 2023**  
Testing Period : **Apr 28, 2023 ~ Jun 07, 2023**

Tested sample



### Tests conducted:

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

To be continued



**Test Report**

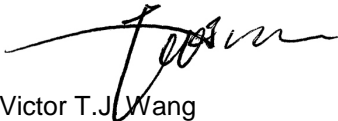
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Conclusion:

<u>Tested sample</u> Tested component(s) of submitted sample(s)	<u>Standard/Testing Item</u>	<u>Result</u>
	Council Europe Resolution AP (2004) 5 on Silicones Used for Food Contact Applications on Overall Migration	Pass
	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	Pass
	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
	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	Pass
	EU Technical Guide Council of Europe Resolution CM/Res(2013)9 on metals and alloys Used in Food Contact Materials and Articles on specific migration of heavy metal	Pass

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Authorized by:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch, Hardlines



Victor T.J. Wang  
Assistant General Manager



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### Tests Conducted

#### 1 Overall Migration Test for Silicones

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						
OM2		10 days at 40 °C						
Tested component		Food simulant		Time(hour)		Temperature(°C)		
(2)		3% (w/v) Acetic acid		240		40		
		50% (v/v) Ethanol		240		40		
Test Item		Result				Units	D.L.	Limit
		2	-	-	-	-		
50% (v/v) Ethanol		ND	-	-	-	-	mg/dm <sup>2</sup>	1 10
3% (w/v) Acetic acid		ND	-	-	-	-	mg/dm <sup>2</sup>	1 10

Remarks:

D.L. = Detection Limit

ND = Not detected

Tested Components: See component list in the last section of this report.



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### Tests Conducted

## 2 Specific Migration of Heavy Metals Content (EU Commission Regulation (EU) No 10/2011)

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 : 24hours

(1) Black PP plastic (lid).

Element	Result				
	1 <sup>st</sup> migration mg/kg	2 <sup>nd</sup> migration mg/kg	3 <sup>rd</sup> migration mg/kg	Reporting Limit mg/kg	Limit mg/kg
Aluminium (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

ND = Not Detected

Compliance: 3<sup>rd</sup> migration result < limit (if limit is ND, 1<sup>st</sup> migration result < limit)

3<sup>rd</sup> migration result ≤ 2<sup>nd</sup> migration result ≤ 1<sup>st</sup> migration result

Tested Components: See component list in the last section of this report.



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### Tests Conducted

### 3 Specific Migration of Primary Aromatic Amines (EU Commission Regulation (EU) No 10/2011)

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

Test condition:

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

(1) Black PP plastic (lid).

Test Item	Result				
	1 <sup>st</sup> migration mg/kg	2 <sup>nd</sup> migration mg/kg	3 <sup>rd</sup> migration mg/kg	Reporting Limit mg/kg	Limit mg/kg
4-Aminodiphenyl	ND	ND	ND	0.002	ND
Benzidine	ND	ND	ND	0.002	ND
4-Chloro-o-toluidine	ND	ND	ND	0.002	ND
2-Naphthylamine	ND	ND	ND	0.002	ND
o-Aminoazotoluene	ND	ND	ND	0.002	ND
2-Amino-4-Nitrotoluene	ND	ND	ND	0.002	ND
p-Chloroaniline	ND	ND	ND	0.002	ND
2,4-Diaminoaniso	ND	ND	ND	0.002	ND
4,4'-Diaminodiphenylmethane	ND	ND	ND	0.002	ND
3,3'-Dichlorobenzidine	ND	ND	ND	0.002	ND
3,3'-Dimethoxybenzidine	ND	ND	ND	0.002	ND
3,3'-Dimethylbenzidine	ND	ND	ND	0.002	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	ND	ND	ND	0.002	ND
p-Cresidine	ND	ND	ND	0.002	ND
4,4'-Methylene-bis-(2-chloroaniline)	ND	ND	ND	0.002	ND
4,4'-Oxydianiline	ND	ND	ND	0.002	ND
4,4'-Thiodianiline	ND	ND	ND	0.002	ND
o-Toluidine	ND	ND	ND	0.002	ND
2,4-Toluylenediamine	ND	ND	ND	0.002	ND
2,4,5-Trimethylaniline	ND	ND	ND	0.002	ND
o-Anisidine	ND	ND	ND	0.002	ND
4-Aminoazobenzene	ND	ND	ND	0.002	ND
m-Phenylenediamine	ND	ND	ND	0.002	ND
Benzoguanamin	ND	ND	ND	0.05	5
4,4-Methylene-bis-3(chloro-2,6-diethylaniline)	ND	ND	ND	0.01	0.05
Total of other primary aromatic amine	ND	ND	ND	0.01	0.01



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### Tests Conducted

ND = Not detected

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

Compliance: 3<sup>rd</sup> migration result < limit (if limit is ND, 1<sup>st</sup> migration result < limit)  
3<sup>rd</sup> migration result ≤ 2<sup>nd</sup> migration result ≤ 1<sup>st</sup> migration result

Tested Components: See component list in the last section of this report.

#### 4 Overall Migration Test (EU Commission Regulation (EU) No 10/2011)

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

Test condition:

Aqueous food simulant:	
Test no.	Time and temperature
OM2	10 days at 40 °C

Tested component	Food simulant	Time(hour)	Temperature(°C)
(1)	3% (w/v) Acetic acid	240	40
	50% (v/v) Ethanol	240	40

(1) Black PP plastic (lid).

Food Simulant	Result				Limit mg/dm <sup>2</sup>
	1 <sup>st</sup> migration mg/dm <sup>2</sup>	2 <sup>nd</sup> migration mg/dm <sup>2</sup>	3 <sup>rd</sup> migration mg/dm <sup>2</sup>	Reporting Limit mg/dm <sup>2</sup>	
3% (w/v) Acetic acid	ND	ND	ND	3	10
50% (v/v) Ethanol	ND	ND	ND	3	10

ND = Not detected

Ratio of food contact surface area to volume of component ( 1 ) used to establish the compliance of material or article = 0.48 dm<sup>2</sup> : 780 mL.

Compliance: 3<sup>rd</sup> migration result < limit (if limit is ND, 1<sup>st</sup> migration result < limit)  
3<sup>rd</sup> migration result ≤ 2<sup>nd</sup> migration result ≤ 1<sup>st</sup> migration result

Tested Components: See component list in the last section of this report.



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### Tests Conducted

#### 5 Release Testing on Metals and Alloys Used in Food Contact Materials and Articles

With reference to EU Technical Guide "Council of Europe Resolution CM/Res(2013)9 on metals and alloys Used in Food Contact Materials and Articles". 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) .

Test Condition:

Food simulant	Time( hours)	Temperature( °C)
Citric acid (5 g/L)	24	40

(3) Silver color stainless steel (body).

Test Item	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	Reporting Limit mg/kg	7*Limit mg/kg	Limit mg/kg
Silver (Ag)	ND	ND	ND	ND	0.05	0.56	0.08
Aluminium (Al)	ND	ND	ND	ND	0.05	35	5
Chromium (Cr)	ND	ND	ND	ND	0.02	1.75	0.250
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	0.02	12.6	1.8
Molybdenum (Mo)	ND	ND	ND	ND	0.02	0.84	0.12
Nickel (Ni)	ND	ND	ND	ND	0.01	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	0.005	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	0.002	0.021	0.003
Thallium (Tl)	ND	ND	ND	ND	0.0001	0.0007	0.0001
Magnesium (Mg)	ND	ND	ND	ND	1	-	-
Titanium (Ti)	ND	ND	ND	ND	1	-	-



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### Tests Conducted

ND = Not detected

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 =  $3.24 \text{ dm}^2 : 520 \text{ mL}$ .

Tested Components: See component list in the last section of this report.

### Component List

No.	Test Component Description(s)
(1)	Black PP plastic (lid).
(2)	Semi-transparent silicone (seal ring).
(3)	Silver color stainless steel (body).





Tests Conducted

Reference photo

GZHH00491197-A



Remark: The products in the reference photos 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.

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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  $w = U$ ) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.*

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