

Test Report

Number: GZHH00487049

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

Date: May 10, 2023

Sample Description:

Twenty (20) pieces of submitted sample said to be :

Item Name : **Water Bottles**
Item No. : **Flexi /FXI**
Country of Origin : China
Date Sample Received : Mar 28, 2023
Testing Period : Mar 28, 2023 ~ May 08, 2023

Tested sample



Tests conducted:

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

To be continued



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Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested component(s) of submitted sample(s)	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
	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 Annex I and its amendment No. 2020/1245 and Regulation 1935/2004 on specific migration of Acrylonitrile content	Pass
	European Commission Regulation No. 10/2011 Annex I and its amendment No. 2020/1245 and Regulation 1935/2004 on specific migration of Butadiene content	Pass
	European Commission Regulation No. 10/2011 Annex I and Regulation 1935/2004 on 1,3- Butadiene content	Pass
	Council Europe Resolution AP (2004) 5 on Silicones Used for Food Contact Applications on Overall Migration	Pass

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

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

I. 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), (2)	3% (w/v) Acetic acid	240	40
	50% (v/v) Ethanol	240	40

II. Test Results :

Tested component(1), (2):

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

ND = Not detected(less than reporting limit)

Ratio of food contact surface area to volume of component (1) used to establish the compliance of material or article = 0.51 dm² : 350 mL.

Ratio of food contact surface area to volume of component (2) used to establish the compliance of material or article = 0.23 dm² : 350 mL.

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



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Tests Conducted

2 Specific Migration of Heavy Metal Content

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

I. Test condition:

Food simulant : 3% (w/v) Acetic acid
Temperature : 40 °C

Time : 24 hours

II. Test result :

Tested component(1), (2) :

Element	Result (mg/kg)			Reporting limit (mg/kg)	Limit (mg/kg)
	1 st migration	2 nd migration	3 rd migration		
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

ND = Not detected(less than reporting limit)

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



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3 Specific Migration of Primary Aromatic Amines

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), (2)	3% (w/v) Acetic acid	24	40

II. Test Result:

Tested component (1), (2):

Test Item	CAS No.	Result (mg/kg)			Reporting Limit (mg/kg)	Limit (mg/kg)	
		1 st migration	2 nd migration	3 rd migration			
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'-Diaminodiphenylmethane	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
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	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 reporting limit)



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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

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

4 Specific Migration of Acrylonitrile Test for Plastic Food Contacting Materials/Articles

With reference to Commission Regulation (EU) No. 10/2011 and BS EN 13130-3:2004.

I. Test condition:

<u>Tested component</u>	<u>Food simulant</u>	<u>Time (hour)</u>	<u>Temperature(°C)</u>
(2)	50% (v/v) Ethanol	24	40

II. Test result

<u>Tested component (2)</u>					
<u>Food simulant</u>	<u>Result(mg/kg)</u>			<u>Reporting Limit (mg/kg)</u>	<u>Limit (mg/kg)</u>
	<u>1st migration</u>	<u>2nd migration</u>	<u>3rd migration</u>		
50% (v/v) Ethanol	ND	ND	ND	0.01	ND

ND = Not detected(less than reporting limit)

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

5 Specific Migration of Butadiene Test for Plastic Food Contacting Materials/Articles

With reference to Commission Regulation (EU) No. 10/2011 and DD CEN/TS 13130-15:2005.

I. Test condition:

<u>Tested component</u>	<u>Food simulant</u>	<u>Time (hour)</u>	<u>Temperature(°C)</u>
(2)	3% (w/v) Acetic acid	24	40

II. Test result

<u>Tested component (2)</u>					
<u>Food simulant</u>	<u>Result(mg/kg)</u>			<u>Reporting Limit (mg/kg)</u>	<u>Limit (mg/kg)</u>
	<u>1st migration</u>	<u>2nd migration</u>	<u>3rd migration</u>		
3% (w/v) Acetic acid	ND	ND	ND	0.01	ND

ND = Not detected(less than reporting limit)

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



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Tests Conducted

6 1,3-Butadiene Content

As per Commission Regulation (EU) No.10/2011 and BS EN 13130-4:2004.

Tested Component	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
(2)	0.5	0.1	1

ND = Not detected

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

7 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.

I. Test condition:

Aqueous food simulant:

Test no.	Time and temperature
OM2	10 days at 40 °C

Tested component	Food simulant	Time(hour)	Temperature(°C)
(3), (4)	3% (w/v) Acetic acid	240	40
	50% (v/v) Ethanol	240	40

II. Test results

Food Simulant	Result(mg/dm ²)	Reporting Limit (mg/dm ²)	Limit (mg/dm ²)
	(3), (4)		
3% (w/v) Acetic acid	ND	1	10
50% (v/v) Ethanol	ND	1	10

ND = Not detected(less than reporting limit)

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



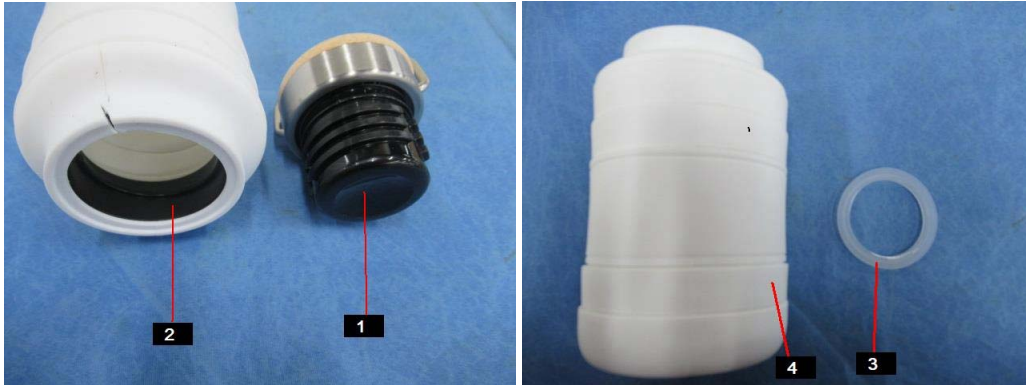
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Components list:

- (1) Black PP plastic (lid).
- (2) Black ABS plastic (ring of bottle).
- (3) Semi-transparent white silicone (seal ring).
- (4) White silicone (bottle).



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Tests Conducted

Reference photo



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.

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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