

Number: GZHH00488238

May 18, 2023

Date:

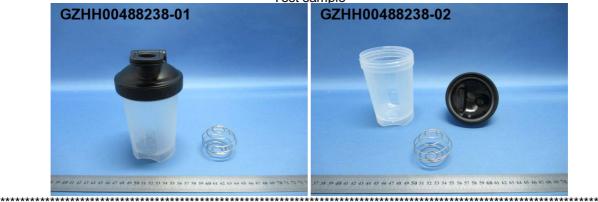
Applicant:

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

Sample Description:

Six (6) pieces of submitted sa	mple	said to be :
Item Name		Water Bottles
Item No.	:	Mix (MX)
Additional Material and Wet	:	Yes
Paint Provided		
Country of Origin	:	China
Date Sample Received	:	Apr 07, 2023
Testing Period	:	Apr 07, 2023 ~ May 18, 2023
U U		•

Test 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> Tested component(s) of submitted sample(s)	<u>Standard</u> 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	<u>Result</u> 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
	Council Europe Resolution AP (2004) 5 on Silicones Used for Food Contact Applications 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

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

Ain

Victor T.J Wang Assistant General Manager





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Tests Conducted

1 <u>Overall Migration Test</u>

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	<u>Time(hour)</u>	Temperature(°C)
(1) (2)	3% (w/v) Acetic acid	240	40
(1), (2)	50% (v/v) Ethanol	240	40

II. Test Results :

Tested component(1):

Food Simulant		Result(mg/dm <sup>2</sup> )	Reporting Limit	Limit	
Food Simulant	1 <sup>st</sup> migration	2 <sup>nd</sup> migration	3 <sup>rd</sup> migration	(mg/dm²)	<u>(mg/dm²)</u>
3% (w/v) Acetic acid	ND	ND	ND	3	10
50% (v/v) Ethanol	ND	ND	ND	3	10

#### Tested component(2):

Food Simulant		Result(mg/dm <sup>2</sup> )	Reporting Limit	Limit	
FOOD SIMULANI	1 <sup>st</sup> migration	2 <sup>nd</sup> migration	3 <sup>rd</sup> migration	(mg/dm <sup>2</sup> )	<u>(mg/dm²)</u>
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 =  $1.3 \text{ dm}^2$ : 550 mL.

Ratio of food contact surface area to volume of component (2) used to establish the compliance of material or article =  $3.17 \text{ dm}^2$  : 550 mL.

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



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**Tests Conducted** 

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#### 2 Specific Migration of Heavy Metal Content

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

Ι. 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	Limit (mg/kg)
	1 <sup>st</sup> migration	2 <sup>no</sup> migration	3 <sup>rd</sup> migration	<u>(mg/kg)</u>	LITTIL (HIG/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

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**

#### 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.

#### Test condition: ١.

Tested component	Food simulant	<u>Time(hour)</u>	Temperature (°C)
(1), (2)	3% (w/v) Acetic acid	24	40

#### П. Test Result:

Tested component (1), (2) :

			Result (mg/kg)		Reporting	Limit	
	Test Item	CAS No.	1 <sup>st</sup>	2 <sup>na</sup>	3 <sup>rd</sup>	Limit	<u>Limit</u> (mg/kg)
			migration	migration	migration	<u>(mg/kg)</u>	<u>(IIIg/Kg)</u>
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'-	101-77-9	ND	ND	ND	0.002	ND
	Diaminodiphenylmethane						
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'diaminodiphenylmethan	838-88-0	ND	ND	ND	0.002	ND
13	e	030-00-0	ND	ND	ND	0.002	ND
14	p-Cresidine	120-71-8	ND	ND	ND	0.002	ND
15	4,4'-Methylene-Bis(2-	101-14-4	ND	ND	ND	0.002	ND
_	Chloroaniline)	-					
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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#### **Tests Conducted**

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.

#### 4 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.

<ol> <li>Test condition</li> </ol>
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Aqueous food simulant:	
Test no.	Time and temperature
OM2	10 days at 40 °C
,i	

Tested component	Food simulant	<u>Time(hour)</u>	Temperature(°C)
(2)	3% (w/v) Acetic acid	240	40
(3)	50% (v/v) Ethanol	240	40

#### II. Test results

Food Simulant	Result(mg/dm <sup>2</sup> )	Reporting Limit	Limit
	(3)	<u>(mg/dm²)</u>	<u>(mg/dm²)</u>
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.

#### 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).

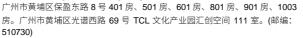
I. Test Condition: Temperature: 40 °C Time: 24 hours



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Number: GZHH00488238

**Tests Conducted** 

Π. Test Result: Food simulant: Citric acid (5 g/L)

Tested component (4) :							
<u>Elements</u>	<u>Result 1<sup>st</sup> test</u> (mg/kg)	<u>Result 2<sup>nd</sup> test</u> (mg/kg)	Result 1 <sup>st</sup> test+Result 2 <sup>nd</sup> test (mg/kg)	<u>Result 3<sup>rd</sup> test</u> (mg/kg)	<u>Reporting</u> Limit (mg/kg)	<u>7*Limit</u> (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 (Cr)	0.03	ND	0.03	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	0.1	12.6	1.8
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	0.0001	0.0007	0.0001
Magnesium(Mg)	ND	ND	ND	ND	1	-	-
Titanium(Ti)	ND	ND	ND	ND	1	-	-

ND = Not detected(less than reporting 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 (4) used to establish the compliance of material or article =  $0.72 \text{ dm}^2$  : 120 mL.

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



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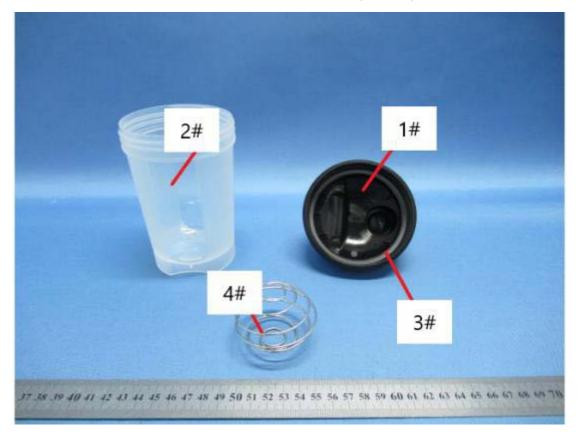


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# **Tests Conducted**

Component list:

Sequence No.	Test Component No.	Test Component Description(s)
SN1	1.	Black PP plastic (big lid).
SN2	2.	Transparent/translucent light white PP plastic (bottle).
SN3	3.	Semi-transparent white silicone (big seal ring).
SN4	4.	Silver color stainless steel (wire ball).





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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.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shenzhen Limited, Guangzhou Branch. The testing data and result issued by this report are just for scientific research, teaching, internal quality control, product research and development etc. on reference only in the territory of the People's Republic of China.



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