

Number: GZHH00498552

Aug 01, 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:

Testing Period

Four (4) pieces of submitted	Four (4) pieces of submitted sample said to be :							
Item Náme	: Water Bottle							
Item No.	: Range/RGE							
Country of Origin	: China							
Date Sample Received	: Jun 21, 2023							

: Jun 21, 2023 : Jun 21, 2023 ~ Jul 31, 2023

GZHH00498552-01
GZHH00498552-02

Image: Constraint of the second second

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	<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
	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
*****	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

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Victor T.J Wang Assistant General Manager





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Tests Conducted

Number: GZHH00498552

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	<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), (2):

Food Simulant		Result(mg/dm ²)	Reporting Limit	Limit		
<u>roou Simulani</u>	1 st migration	2 nd migration	3 rd migration	(mg/dm ²)	<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 = 1.63 dm^2 : 550 mL.

Ratio of food contact surface area to volume of component (2) used to establish the compliance of material or article = 0.75 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 40[`]°C Temperature :

Time : 24 hours

Π. Test result :

Tested component(1), (2):

Element	Result (mg/kg)			Reporting limit	Limit (mg/kg)
	1 st migration	2 ^{na} migration	3 rd migration	<u>(mg/kg)</u>	
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 st	2 ^{na}	3 rd	Limit	<u>Limit</u> (mg/kg)
			migration	migration	migration	(mg/kg)	<u>(mg/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	
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

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ND = Not detected(less than reporting 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-4-methylbenzamide, 2-Amino-5-methylbenzoic acid

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

4 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

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

Tested component(4) :

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<u>Elements</u>	<u>Result 1st test</u> (mg/kg)	<u>Result 2nd test (mg/kg)</u>	Result 1 st test+Result 2 nd test (mg/kg)	<u>Result 3rd 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)	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	0.1	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)	0.010	0.007	0.017	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	-	-

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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 1st test + Result 2nd test < 7 * limit) and the Result 3rd 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 = 2.53 dm^2 : 367 mL.

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

5 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.

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
(3)	50% (v/v) Ethanol	240	40

II. Test results

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

Remark:

As requested by applicant, test was conducted only on component(s) listed in this report.

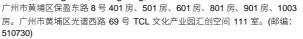
Component list:

- (1) Black PP plastic (lid, nozzle).
- (2) Semi-transparent white PE plastic (straw).
- (3) Semi-transparent white silicone (seal ring).
- (4) Silver color stainless steel (bottle).

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Tests Conducted





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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