

Applicant: FLASHBAY ELECTRONICS

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

P.R.CHINÁ

Sample Description:

Thirteen (13) pieces of submitted sample said to be: Item Name **Travel Cups** Item No. Aroma (AM) China

Country of Origin
Date Sample Received Mar 21, 2024

Testing Period Mar 21, 2024 ~ Apr 02, 2024

Tested sample





Date:

Apr 02, 2024

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

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Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China \111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China.

广州市黄埔区保盈东路 8 号 401 房、501 房、601 房、801 房、901 房、1003 房。广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510730)

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Tested sample

Tested component(s) of submitted sample(s)

Test Report Number: GZHH00531331

Conclusion:

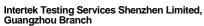
Standard Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Section 5 and Annex 2 on specific migration of Primary Aromatic Amines	Result Pass
Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) section 5 on overall migration	Pass
Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) annex 9 on overall migration of silicone materials and articles	Pass
Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Annex 9 on specific migration of heavy metal content of silicone materials and articles	Pass
Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) annex 9 on specific migration of Primary Aromatic Amines of silicone materials and articles	Pass
Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) annex 9 on volatile organic matter of silicone materials and articles	Pass
Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) section 4 on Total Heavy Metal content	Pass
Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) section 4 on Specific Migration of Aluminum Content	Pass
Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Section 5 and Annex 2 on specific migration of heavy metal content	Pass
Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Section 5 and Annex 2 on specific migration of Bisphenol A content	Pass
Swiss Ordinance on Materials and Articles in Contact with Food	Pass

To be continued



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(SR 817.023.21) Section 5 and Annex 2 on Phthalate content

003





Conclusion:

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

Standard

Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Section 5 and Annex 2 on specific migration of

Phthalate content

Authorized by:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch, Hardlines

Victor T.J/Wang

Assistant General Manager

Result

Pass

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Tests Conducted

1 Specific Migration of Primary Aromatic Amines with reference to Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Annex 4.

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):

			R	esult (mg/kg	a)	Reporting	l imait
	Test Item	CAS No.	1 st	2 nd	3 rd	Limit	Limit
			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
10	Diaminodiphenylmethane 3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	0.002	ND
10	3,3'-Dimethoxybenzidine	119-90-4	ND ND	ND ND	ND ND	0.002	ND ND
12		119-90-4	ND ND	ND ND	ND ND	0.002	ND
12	3,3'-Dimethylbenzidine 3,3'-Dimethyl-	119-93-7	ND	ND	ND	0.002	ND
13	4,4'diaminodiphenylmethan	838-88-0	ND	ND	ND	0.002	ND
	е						
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-4-methoxybenzanilide, 3-Amino-4-methylbenzamide, 2-Amino-5-methylbenzoic acid

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

2 **Overall Migration Test**

With reference to Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) annex 4.

I. Test condition:

Tested component	Food simulant	<u>Time(hour)</u>	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

II. Test Results:

Tested component(1):

r dottod domponont(1).					
Food Simulant		Result(mg/dm²)		Reporting Limit	<u>Limit</u>
rood Simulant	1 st migration	2 nd migration	3 rd 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

Tested component(4):

Food Cimulant		Result(mg/dm²)			Limit
Food Simulant	1 st migration	2 nd migration	3 rd 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	6	ND	ND	3	10

ND = Not detected(less than reporting limit)

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

Component (1) = 1 dm^2 : 337 mL Component (4) = 1 dm^2 : 35000 mL

Vgrification of compliance with the limit was based on the result obtained from 3rd migration and results of 3rd migration < 2nd migration < 1st migration.

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



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Tests Conducted

3 Overall Migration Test on silicone materials and articles

As per Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) annex 4.

I. 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	<u>Time(hour)</u>	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

II. Test Results:

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

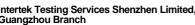
ND = Not detected(less than reporting limit)

Ratio of food contact surface area to volume used to establish the compliance of material or article = $1 dm^2$: 972mL.

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

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Tests Conducted

4 Specific Migration of Heavy Metal on silicone materials and articles

As per Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) annex 4.

I. Test condition:

> Temperature: 40 °C Time: 24 hours

II. Test result:

Food simulant	Element	Result (mg/kg) (2)	Reporting limit (mg/kg)	<u>Limit (mg/kg)</u>
	Barium	ND	0.1	1 (max.)
	Cobalt	ND	0.03	0.05 (max.)
	Copper	ND	1	5 (max.)
3% (w/v) Acetic acid	Iron	ND	5	48 (max.)
in aqueous solution	Lithium	ND	0.1	0.6 (max.)
	Manganese	ND	0.1	0.6 (max.)
	Zinc	ND	1	5 (max.)
	Aluminum	ND	0.1	1(max)

ND = Not detected(less than reporting limit)

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

Specific Migration of Primary Aromatic Amines on silicone materials and articles 5

As per Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) annex 4.

I. Test condition:

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

II. Test result:

Food cimulant	Result(mg/kg)	Reporting Limit	<u>Limit</u>
Food simulant	<u>(2)</u>	<u>(mg/kg)</u>	<u>(mg/kg)</u>
3% (w/v) Acetic acid	ND	0.01	ND

ND = Not detected(less than reporting limit)

Remark: Ratio of food contact surface area to volume used for the testing: 1 dm²: 972 ml

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



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Tests Conducted

6 Volatile Organic Matter

By gravimetric analysis.

I. Test condition:

> Temperature: 200°C Time: 4 hours

II. Result:

Tested component	Result	Reporting limit	Limit
of submitted sample	(%)	(%)	<u>(%)</u>
(2)	0.3	0.1	0.5

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

7 **Total Heavy Metal Content**

By acid digestion and followed by Inductively Coupled Plasma Optical Emission Spectrometry analysis.

Element	Result (%) (3)	Reporting limit (%)	Limit (%)
Lead (Pb)	ND	0.001	0.05
Cadmium (Cd)	ND	0.001	0.01
Arsenic (As)	0.004	0.001	0.03

ND = Not detected(less than reporting limit)

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

8 Specific Migration of Aluminum Content

Migration test was carried out and heavy metal content was determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OÉS) .

Test condition:

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

II. Test result:

Test Item	Result (mg/L) (3)	Reporting limit (mg/L)	<u>Limit(mg/L)</u>
Specific Migration of Aluminum Content	ND	1	10(max.)



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Tests Conducted

ND = Not detected(less than reporting limit)

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

9 Specific Migration of Heavy Metal Content

With reference to Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Annex 4.

Test condition: Ι.

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

Temperature: 40 °C Time: 24 hours

II. Test result:

Tested component(1), (4):

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

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

10 Specific Migration of Bisphenol A Test for Plastic Food Contacting Materials/Articles

With reference to Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Annex 4.

Test condition: I.

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

Test result:

Food Simulant	Result(mg/kg)	Reporting Limit	<u>Limit</u>
rood Simulant	<u>(4)</u>	<u>(mg/kg)</u>	<u>(mg/kg)</u>
3% (w/v) Acetic acid	ND	0.01	0.05

ND = Not detected(less than reporting limit)

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

11 Phthalate Content

With reference to Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Annex 4.

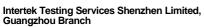
<u>Phthalate</u>	CAS No.	Result (%) Tested component (4)	Reporting Limit (%)	Limit (%)
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	0.05
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0	ND	0.005	0.1
Di-isodecyl phthalate (DIDP)	26761-40-0	ND	0.005	0.1

ND = Not detected (less than reporting limit)

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



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Tests Conducted

12 Specific Migration of Phthalate Content Test

With reference to Swiss Ordinance on Materials and Articles in Contact with Food (SR 817.023.21) Annex 4.

I. Test condition:

Tested component	Food simulant	Time(hour)	Temperature(°C)
(4)	95%(v/v) Ethanol	24	40

II. Test result:

Food simulant: Fatty food simulant / 95% Ethanol:

Tested component (4)					
	Result(mg/kg)			Reporting	<u>Limit</u>
<u>Phthalate</u>	1 st migration	2 nd migration	3 rd migration	<u>Limit</u> (mg/kg)	(mg/kg)
Butyl benzy phthalate (BBP)	ND	ND	ND	1	30
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	1	1.5
Dibutyl phthalate (DBP)	ND	ND	ND	0.2	0.3
Di-(iso-nonyl) Phthalate (DINP) + Di-(iso-decyl) phthalate (DIDP)	ND	ND	ND	1	9
Diallyl phthalate (DAP)	ND	ND	ND	0.01	ND

ND = Not detected(less than reporting limit)
Compliance: 3^{rd} migration result < limit 1^{st} migration result $\le 2^{nd}$ migration result $\le 3^{rd}$ migration result after consideration of method

variation

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

Components list:

- Black PP plastic (lid).
- Semi-transparent white silicone (seal ring).
- (3) Silver color 304 stainless steel (inner body).
- Black unvulcanized TPR plastic (sealing stopper of lid).





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Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China \111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China.

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Tests Conducted



Remark: The products in the reference photos are not tested in this report. It's declared by the applicant that the materials of those items are identical to the particular tested sample. They are 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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1003 绝·

