

Test Report

Number: GZHH00491202

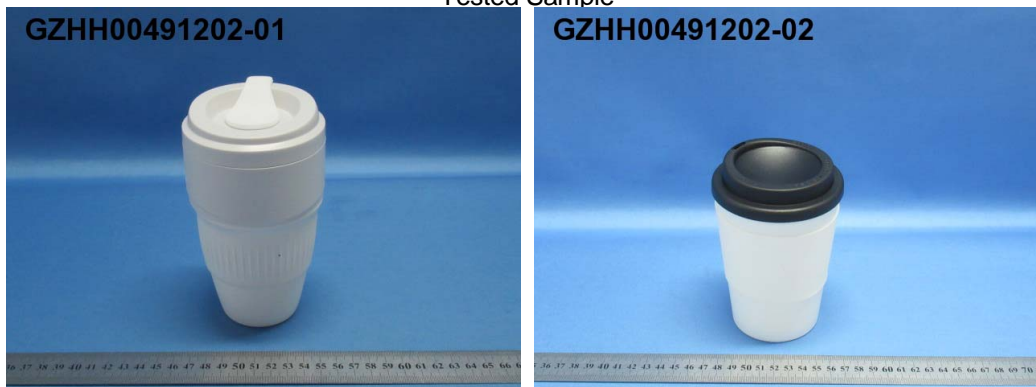
Applicant: FLASHBAY ELECTRONICS
BUILDING2, JIXUN INDUSTRIAL PARK, XINJIAO,
DONG'AO VILLAGE, SHATIAN TOWN, HUIYANG
DISTRICT, HUIZHOU CITY, GUANGDONG PROVINCE,
P.R.CHINA

Date: Jun 09, 2023

Sample Description:

Two (2) styles of submitted sample said to be :
Item Name : **Travel Cup**
Item No. : **Barista/BA , Java/JA**
Country of Origin : China
Date Sample Received : Apr 28, 2023
Testing Period : Apr 28, 2023 ~ Jun 09, 2023

Tested Sample



Tests conducted:

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

To be continued



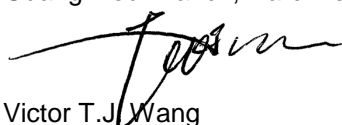
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Conclusion:

<u>Tested sample</u> Tested component(s) of submitted samples	<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 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 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
	European Commission Regulation No. 10/2011 Annex I and Regulation 1935/2004 on 1,3- Butadiene content	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 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
Fatty food simulant:	
Test no.	Time and temperature
OM2	10 days at 40 °C

Tested component	Food simulant	Time(hour)	Temperature(°C)
(1)to(3)	10% (v/v) Ethanol	240	40
	3% (w/v) Acetic acid	240	40

Test Item	Result					Units	D.L.	Limit
	1	2	3	-	-			
10% (v/v) Ethanol	ND	ND	ND	-	-	mg/dm ²	1	10
3% (w/v) Acetic acid	ND	ND	ND	-	-	mg/dm ²	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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2 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.

Test condition:

Tested component	Food simulant	Time (hour)	Temperature(°C)
(6)	50% (v/v) Ethanol	2 and then 24	70 and then 40

(6) White ABS plastic (lid of white style).

Food Simulate	Result				
	1 st migration mg/kg	2 nd migration mg/kg	3 rd migration mg/kg	Reporting Limit mg/kg	Limit mg/kg
50% (v/v) Ethanol	ND	ND	ND	0.01	ND

ND = Not Detected

Ratio of food contact surface area to volume of component (6) used to establish the compliance of material or article = 0.91 dm² : 450 mL.

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

3 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.

Test condition:

Tested component	Food simulant	Time (hour)	Temperature(°C)
(6)	3% (w/v) Acetic acid	2 and then 24	70 and then 40

(6) White ABS plastic (lid of white style).

Test Item	Result				
	1 st migration mg/kg	2 nd migration mg/kg	3 rd migration mg/kg	Reporting Limit mg/kg	Limit mg/kg
3% (w/v) Acetic acid	ND	ND	ND	0.01	ND

ND = Not Detected

Ratio of food contact surface area to volume of component (6) used to establish the compliance of material or article = 0.91 dm² : 450 mL.

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



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4 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 : 70 °C and then 40°C

Time : 2 hours and then 24 hours

(4) Black PP plastic (lid of black style).

Element	Result				
	1 st migration mg/kg	2 nd migration mg/kg	3 rd 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



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(5) White PP plastic (body of black style).

Element	Result				
	1 st migration mg/kg	2 nd migration mg/kg	3 rd 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



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Tests Conducted

(6) White ABS plastic (lid of white style).

Element	Result				
	1 st migration mg/kg	2 nd migration mg/kg	3 rd 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: 3rd migration result < limit (if limit is ND, 1st migration result < limit)
 3rd migration result ≤ 2nd migration result ≤ 1st migration result



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Tests Conducted

5 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)
(4)to(6)	3% (w/v) Acetic acid	2 and then 24	70 and then 40

(4) Black PP plastic (lid of black style).

Test Item	Result				
	1 st migration mg/kg	2 nd migration mg/kg	3 rd 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-Diaminoanisole	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

(5) White PP plastic (body of black style).

Test Item	Result				
	1 st migration mg/kg	2 nd migration mg/kg	3 rd 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-Diaminoanisole	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

(6) White ABS plastic (lid of white style).

Test Item	Result				
	1 st migration mg/kg	2 nd migration mg/kg	3 rd 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-Diaminoanisole	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

ND = Not detected

Other primary aromatic amines are p-Phenylenediamine, 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: 3rd migration result < limit (if limit is ND, 1st migration result < limit)
 3rd migration result ≤ 2nd migration result ≤ 1st migration result



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Tests Conducted

6 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
Fatty food simulant:	
Test no.	Time and temperature
OM2	10 days at 40 °C

Tested component	Food simulant	Time(hour)	Temperature(°C)
(4)to(6)	10% (v/v) Ethanol	240	40
	3% (w/v) Acetic acid	240	40

(4) Black PP plastic (lid of black style).

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

(5) White PP plastic (body of black style).

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

(6) White ABS plastic (lid of white style).

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



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Tests Conducted

ND = Not detected

Ratio of food contact surface area to volume of component (4) used to establish the compliance of material or article = $0.79 \text{ dm}^2 : 356 \text{ mL}$.

Ratio of food contact surface area to volume of component (5) used to establish the compliance of material or article = $2.29 \text{ dm}^2 : 356 \text{ mL}$.

Ratio of food contact surface area to volume of component (6) used to establish the compliance of material or article = $0.91 \text{ dm}^2 : 450 \text{ mL}$.

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

3rd migration result \leq 2nd migration result \leq 1st migration result

7 1,3-Butadiene Content

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

Test Item	Result					Units	D.L.	Limit
	6	-	-	-	-			
1,3-Butadiene	0.7	-	-	-	-	mg/kg	0.1	1

Remarks:

D.L. = Detection Limit

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

Component List

No.	Test Component Description(s)
(1)	Bright white silicone (lid of white style).
(2)	White silicone (bottle of white style).
(3)	Semi-transparent white silicone (seal ring of black style).
(4)	Black PP plastic (lid of black style).
(5)	White PP plastic (body of black style).
(6)	White ABS plastic (lid of white style).



Tests Conducted

Reference photos



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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