

Test Report

No. CANEC1814641901

Date: 07 Aug 2018

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FLASHBAY ELECTRONICS

BLDG. NO.1 101~501, BLDG. NO.2, BLDG. NO. 3 1~4F, XIFENGCHENG INDUSTRIAL PARK, NO. 2 FUYUAN RD, HEPING, FUHAI, BAO'AN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R. CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : water bottle

SGS Job No. : CP18-039380 - SZ
 Model No. : Vita
 Date of Sample Received : 19 Jul 2018
 Testing Period : 19 Jul 2018 - 28 Jul 2018
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Overall migration	PASS
Council of Europe Resolution AP (2004) 5 – Overall migration	PASS
Council of Europe Resolution AP (2004) 1 – Overall migration	PASS
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments – Specific Migration of Bisphenol A	PASS
European Commission Regulation 1895/2005/EC -Specific Migration of BADGE, BADGE Derivatives, BFDGE and NOGE	PASS
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Specific Migration of Heavy Metal	PASS
Council of Europe Resolution CM/Res(2013)9–Extractable heavy metal	PASS



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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Fannie Chen

Fannie Chen
Review

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN18-146419.001	Black plastic lid	PP
SN2	CAN18-146419.002	Translucent silicone rubber ring	Silicone rubber
SN3	CAN18-146419.003	Red coated metal bottle(outside)	Metal+coating
SN4	CAN18-146419.004	Silvery metal bottle(inner)	Metal

Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-3:2002 aqueous food simulants by total immersion method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>	<u>Comment</u>
20% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.
4. Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
5. Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg
6. Result(s) was/were calculated based on the total contact surface of the sealing article and sealed container provided by client.

Council of Europe Resolution AP (2004) 5 – Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-3:2002 aqueous food simulants by total immersion method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002 Overall Migration</u>	<u>Comment</u>
20% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS



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Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.
4. Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
5. Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg
6. Result(s) was/were calculated based on the total contact surface of the sealing article and sealed container provided by client.

Council of Europe Resolution AP (2004) 1 – Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-3:2002 aqueous food simulants by total immersion method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003 Overall Migration</u>	<u>Comment</u>
20% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.
4. Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
5. Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg

Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments –Specific Migration of Bisphenol A

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method, analysis was performed by HPLC-MS/MS.

Sample 001

Simulant Used : 3% Acetic Acid (W/V)
 Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
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Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	6.0
Specific migration of Bisphenol-A	0.05	mg/kg	0.01	ND
Comment				PASS

Sample 003

Simulant Used : 3% Acetic Acid (W/V)

Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	6.0
Specific migration of Bisphenol-A	0.05	mg/kg	0.01	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)

European Commission Regulation 1895/2005/EC -Specific Migration of BADGE, BADGE Derivatives, BFDGE and NOGE

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition, EN 13130-1:2004 for selection of test method and EN 15136:2006. Analysis was performed by LC-MS.

Sample 003

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm ² /kg	-	6.0
Bisphenol A bis(2,3-dihydroxypropyl) ether(BADGE.2H ₂ O)	-	mg/kg	0.2	ND
Bisphenol A diglycidyl ether (BADGE)	-	mg/kg	0.2	ND



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Bisphenol A (2,3-dihydroxypropyl) glycidyl ether(BADGE.H ₂ O)	-	mg/kg	0.2	ND
Sum of (BADGE.2H ₂ O+ BADGE+ BADGE.H ₂ O)	9	mg/kg	-	ND
Bisphenol F diglycidyl ether (BFDGE)	★	mg/kg	0.2	ND
Bisphenol A bis(3-Chloro-2-hydroxypropyl) ether(BADGE.2HCl)	-	mg/kg	0.2	ND
Bisphenol A (3-chloro-2-hydroxypropyl) glycidyl ether(BADGE.HCl)	-	mg/kg	0.2	ND
Bisphenol A (3-chloro-2-hydroxypropyl)-(2,3-dihydroxypropyl) ether (BADGE.H ₂ O.HCl)	-	mg/kg	0.2	ND
Sum of (BADGE.2HCl+ BADGE.HCl+ BADGE.H ₂ O.HCl)	1	mg/kg	-	ND
Novolac glycidyl ether (NOGE)	★	mg/kg	0.2	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)

Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments—Specific Migration of Heavy Metal

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method, analysis was performed by ICP-OES.

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
 Test Condition : 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	6.0
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND



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Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment				PASS

Sample 003

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	6.0
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)
- 5.The limits of aluminium and zinc according to Commission Regulation (EU) 2016/1416 shall be applied from 14 September 2018.
- 6.The limits of nickel according to Commission Regulation (EU) 2017/752 shall be applied from 19 May 2019.

Council of Europe Resolution CM/Res(2013)9-Extractable heavy metal

Test Method : With reference to EN13130-1:2004 for selection of test method; analysis was performed by ICP-OES and ICP-MS.

Sample 004:

Simulant Used : Artificial tap water



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Test Condition : 70 °C 2.0 hr(s)

The ratio of surface area to volume ratio was : 5.8 dm²/kg

Test Item(s)	Limit	Unit	MDL	<i>1st + 2nd Migration</i>
Aluminium(Al)	35	mg/kg	0.2	2.0
Antimony(Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.75	mg/kg	0.1	ND
Cobalt(Co)	0.14	mg/kg	0.01	ND
Copper(Cu)	28	mg/kg	0.1	ND
Iron(Fe)	280	mg/kg	0.25	ND
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND
Nickel(Ni)	0.98	mg/kg	0.05	ND
Silver(Ag)	0.56	mg/kg	0.03	ND
Tin (Sn)	700	mg/kg	5	ND
Vanadium(V)	0.07	mg/kg	0.005	ND
Zinc(Zn)	35	mg/kg	1	ND
Arsenic(As)	0.014	mg/kg	0.001	ND
Barium(Ba)	8.4	mg/kg	0.25	ND
Beryllium(Be)	0.07	mg/kg	0.005	ND
Cadmium(Cd)	0.035	mg/kg	0.002	ND
Lead(Pb)	0.07	mg/kg	0.005	ND
Lithium(Li)	0.336	mg/kg	0.02	ND
Mercury(Hg)	0.021	mg/kg	0.002	ND
Thallium(Tl)	0.0007	mg/kg	0.0001	ND

Test Item(s)	Limit	Unit	MDL	<i>3rd Migration</i>
Aluminium(Al)	5	mg/kg	0.2	ND
Antimony(Sb)	0.04	mg/kg	0.02	ND
Chromium(Cr)	0.25	mg/kg	0.1	ND
Cobalt(Co)	0.02	mg/kg	0.01	ND
Copper(Cu)	4	mg/kg	0.1	ND
Iron(Fe)	40	mg/kg	0.25	ND
Manganese(Mn)	1.8	mg/kg	0.25	ND
Molybdenum(Mo)	0.12	mg/kg	0.02	ND
Nickel(Ni)	0.14	mg/kg	0.05	ND
Silver(Ag)	0.08	mg/kg	0.03	ND
Tin (Sn)	100	mg/kg	5	ND
Vanadium(V)	0.01	mg/kg	0.005	ND
Zinc(Zn)	5	mg/kg	1	ND
Arsenic(As)	0.002	mg/kg	0.001	ND
Barium(Ba)	1.2	mg/kg	0.25	ND
Beryllium(Be)	0.01	mg/kg	0.005	ND
Cadmium(Cd)	0.005	mg/kg	0.002	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>3rd Migration</u>
Lead(Pb)	0.01	mg/kg	0.005	ND
Lithium(Li)	0.048	mg/kg	0.02	ND
Mercury(Hg)	0.003	mg/kg	0.002	ND
Thallium(Tl)	0.0001	mg/kg	0.0001	ND

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. MDL = Method Detection Limit
3. ND = Not Detected (< MDL)
4. Acidic foodstuff is not considered for compliance
5. According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles



Sample photo:





SGS authenticate the photo on original report only

*** End of Report ***



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BLDG. NO.1 101~501, BLDG. NO.2, BLDG. NO. 3 1~4F, XIFENGCHENG INDUSTRIAL PARK, NO. 2 FUYUAN RD, HEPING, FUHAI, BAO'AN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R. CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : water bottle

SGS Job No. : CP18-038738 - SZ
 Model No. : Vita
 Date of Sample Received : 25 Jul 2018
 Testing Period : 25 Jul 2018 - 07 Aug 2018
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
FDA 21 CFR 175.300–Total extractive residues	PASS
FDA 21 CFR 177.1210–Chloroform-soluble extractive residues	PASS
FDA 21 CFR 177.2600–Total extractive residues	PASS
FDA 21 CFR 177.1520–Maximum extractable fraction in n-Hexane	PASS
US FDA CPG Sec. 545.500 - Leachable Lead	PASS
FDA 21 CFR 177.1520–Maximum soluble fraction in xylene	PASS

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Fannie Chen

Fannie Chen
 Review



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-151131.001	Black plastic
SN2	CAN18-151131.002	Translucent silicone
SN3	CAN18-151131.003	Red material
SN4	CAN18-151131.004	Silvery metal

FDA 21 CFR 175.300–Total extractive residues

Test Method : With reference to US FDA 21 CFR 175.300.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003 Total extractive residues</u>	<u>Comment</u>
Distilled Water	24.0 hr(s)	120°F	18mg/sq. in	<1mg/sq. in	PASS

Notes :

mg/inch²= milligram per square inch

FDA 21 CFR 177.1210–Chloroform-soluble extractive residues

Test Method : With reference to US FDA 21 CFR 177.1210.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002</u>	<u>Comment</u>
Distilled Water	24.0hr(s)	120°F	-	<5ppm	PASS

Notes :

1. ppm = mg/kg = milligram per kilogram of foodstuff in contact with
2. Test sample was applied to container with capacity of 0.75 L.

FDA 21 CFR 177.2600–Total extractive residues

Test Method : With reference to US FDA 21 CFR 177.2600.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002</u>	<u>Comment</u>
Distilled Water	7.0hr(s)	Reflux temperature	20mg/sq. in	<0.5mg/sq. in	PASS



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Succeeding Extraction 2.0hr(s) Reflux 1mg/sq. in <0.5mg/sq. in PASS
temperature

Notes :

mg/inch²= milligram per square inch

FDA 21 CFR 177.1520–Maximum extractable fraction in n-Hexane

Test Method : With reference to US FDA 21 CFR 177.1520 d(3)(i).

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001</u>	<u>Comment</u>
n-Hexane	2hr(s)	Reflux temperature	6.4%(w/w)	<0.5%(w/w)	PASS

Notes :

%w/w = percentage of weight by weight

US FDA CPG Sec. 545.500 - Leachable Lead

Test Method : With reference to AOAC 18th Ed. (2005) Section 973.32, analysis was performed by ICP-OES.

Sample 004 Metalware

	<u>Vol. of Leaching Solution (mL)</u>	<u>Depth (mm)</u>
1	800	215
2	800	215
3	800	215
4	800	215
5	800	215
6	800	215

leachable lead

	<u>(µg/mL)</u>
1	<0.05
2	<0.05
3	<0.05
4	<0.05
5	<0.05
6	<0.05
Average	<0.05

Limit 7



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FDA 21 CFR 177.1520–Maximum soluble fraction in xylene

Test Method : With reference to US FDA 21 CFR 177.1520 d(4)(i).

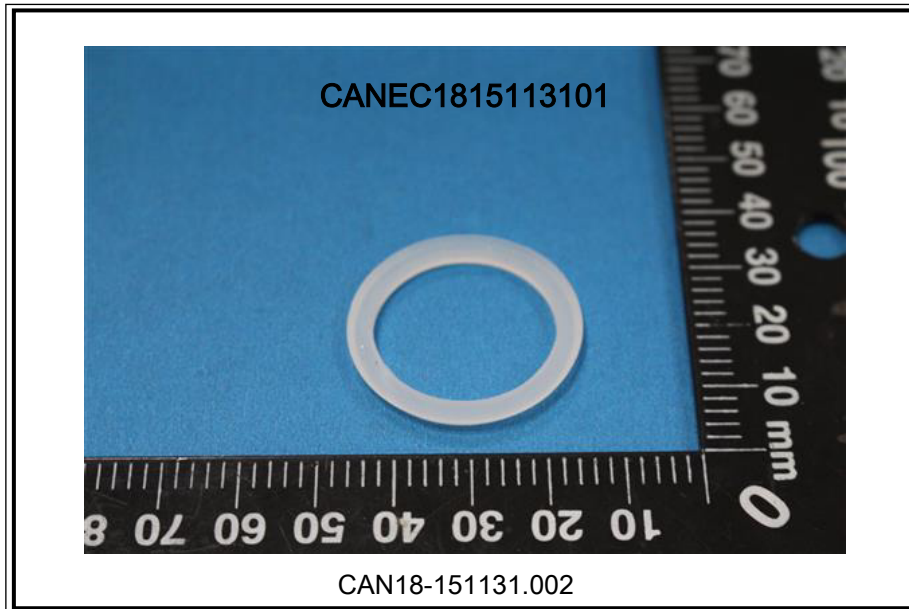
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Soluble fraction in Xylene	9.8	%(w/w)	0.5	2.7
Comment				PASS

Notes :

%w/w = percentage of weight by weight



Sample photo:





SGS authenticate the photo on original report only

*** End of Report ***

