



Technical Report No. 68.420.19.0253.01E
Dated 2019-03-28

Client: Flashbay Electronics

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Attn.: Mr. Levin

Sample Description: Water Bottles

Model No.: Cuppa(KA)

Sample Received Date: 2019-03-10

Test Period: From 2019-03-10 to 2019-03-19

Location of Testing: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Purpose of examination: As specified by client, to test below items as regulated by the Regulation (EC) No.1935/2004,

Test Result: Refer to following page(s)

Remark:

- The result relates only to the items tested.
- The test condition was specified by client.
- The test item(s) and sample(s) were specified by the client.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

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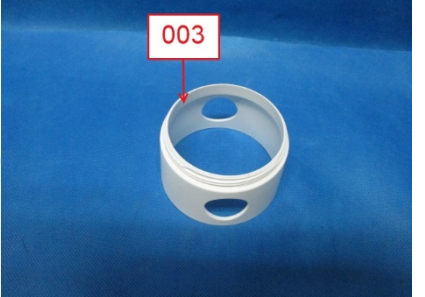
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SUMMARY OF TEST RESULTS

No.	Test Requested	Conclusion	Remarks
1.	For material: Plastics or coating – Overall Migration test for compliance with regulation (EU) No. 10/2011, (EU) No. 2016/1416, (EU) No. 2017/752 and (EU) No. 2018/79	PASS	
2.	For material: Silicone – Overall migration test for compliance with Resolution AP (2004)5.	PASS	
3.	For material: Plastics or coating – Specific Migration of Heavy Metals (Ba, Co, Cu, Fe, Li, Mn, Zn, Al, Ni, W) for compliance with regulation (EU) No. 10/2011 and it's amendment (EU) No. 2016/1416, (EU) No. 2017/752 and (EU) No. 2018/79.	PASS	
4.	For material: Acrylonitrile copolymers – Specific Migration of Acrylonitrile and 1,3-Butadiene for compliance with regulation (EU) No. 10/2011	PASS	

1. TESTED SUBJECT DESCRIPTION

Sample Number	Item Name	Tested Material Description	Photo
001	Cover (ABS)	White plastic	
002	Mug (silicone)	White silicone	
003	Case (ABS)	White plastic	

2. TEST RESULT

2.1. OVERALL MIGRATION TEST FOR PLASTIC

Test method: As specified in Regulation (EU) No. 10/2011; with reference to EN 1186:part 1, part 2, part 3, part 8, part 9 & part 14 :2002.

Simulant Used	Test Condition	Result [mg/dm ²]		Maximum Permissible Limit [mg/dm ²]
		Sample 001	Sample 003	
3% Acetic Acid	70 °C for 2 hours	< 3.0	< 3.0	10
50% Ethanol	70 °C for 2 hours	< 3.0	< 3.0	10

Note:

- “°C” denotes degree Celsius
- “mg/dm²” denotes milligram per square decimeter
- “<” denotes less than
- The specification was quoted from regulation (EU) 10/2011.

2.2. OVERALL MIGRATION TEST FOR SILICONE

Test method: As specified in Resolution AP (2004)5; with reference to EN 1186:part 1, part 2, part 3, part 8, part 9 & part 14 :2002.

Simulant Used	Test Condition	Result [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]
		Sample 002	
3% Acetic Acid	70 °C for 2 hours	< 3.0	10
50% Ethanol	70 °C for 2 hours	< 3.0	10

Note:

- “°C” denotes degree Celsius
- “mg/dm²” denotes milligram per square decimeter
- “<” denotes less than
- The specification was quoted from Resolution AP (2004)5.

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2.3. SPECIFIC MIGRATION OF HEAVY METALS (Ba, Co, Cu, Fe, Li, Mn, Zn, Al, Ni, W) TEST

Test method: As specified in Regulation (EU) No. 10/2011, the sample(s) were migrated with food simulant, followed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) analysis.

Testing condition and simulant: 3% acetic acid at 70 °C for 2 hour(s).

Test Item	Result [mg/kg]		Maximum Permissible Limit [mg/kg]
	Sample 001	Sample 003	
Barium (Ba)	<0.10	<0.10	1
Cobalt (Co)	<0.05	<0.05	0.05
Copper (Cu)	<0.50	<0.50	5
Iron (Fe)	<1.00	<1.00	48
Lithium (Li)	<0.10	<0.10	0.6
Manganese (Mn)	<0.05	<0.05	0.6
Zinc (Zn)	<1.00	<1.00	5
Aluminium (Al)	<0.05	<0.05	1
Nickel (Ni)	<0.02	<0.02	0.02
Tungsten (W)	<0.02	<0.02	0.05

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than
- The specification was quoted from regulation (EU) 10/2011 and it's amendments regulation (EU) 2016/1416, (EU) 2017/752, (EU) No. 2018/79.

2.4. SPECIFIC MIGRATION OF ACRYLONITRILE AND BUTADIENE TEST

Test method: As specified in Regulation (EU) No. 10/2011, the sample(s) were migrated with food simulant, followed by Gas Chromatography/Mass Spectrometry (GC-MS) analysis.

Testing condition and simulant: 3% acetic acid at 70 °C for 2 hour(s).

Test Item	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
	Sample 003	
Migration of Acrylonitrile	< 0.01	Not Detected (< 0.01mg/kg)
Migration of 1,3-butadiene	< 0.01	Not Detected (< 0.01mg/kg)

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than
- The specification was quoted from Regulation (EU) No. 10/2011

