

FLASHBAY ELECTRONICS
Building 2, Jixun Industrial Park, Xinjiao, Dong'ao Village,
Shatian Town, Huiyang

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TEST REPORT

Test Report No. : 4300027.54 Version 1
Project No. : 4300027.00
Test Report Date : 2023-03-29

Job No. : 23-00229
Applicant : FLASHBAY ELECTRONICS
Building 2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town,
Huiyang
Product Name : Water Bottles
Model No. : Aqualok Metal/QLM
Test Requested : 1. FDA General Recognized as Safe (GRAS)
2. U.S. 21 CFR F.D.A. Regulation Part 177.2600 rubber articles intended
for repeated use, Section (e) and (f)
3. U.S. 21 CFR F.D.A. Regulation Part 177.1520 Clause 1.1b for
polypropylene
Test Method : Please refer to next pages
Sample Received : 2023-02-16
Testing Period : 2023-02-16 to 2023-03-28

Test Results
- following pages -

Resume:

No.	Parameter	Sample photos
		
1.	FDA General Recognized as Safe (GRAS)	PASS
2.	Test for F.D.A. Regulation on Rubber 21 CFR Part 177.2600	PASS
3.	Test for F.D.A. Regulation on polypropylene 21 CFR 177.1520	PASS

Guangzhou, March 29, 2023

Signed for and on behalf of

DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

Chemical & Mechanical



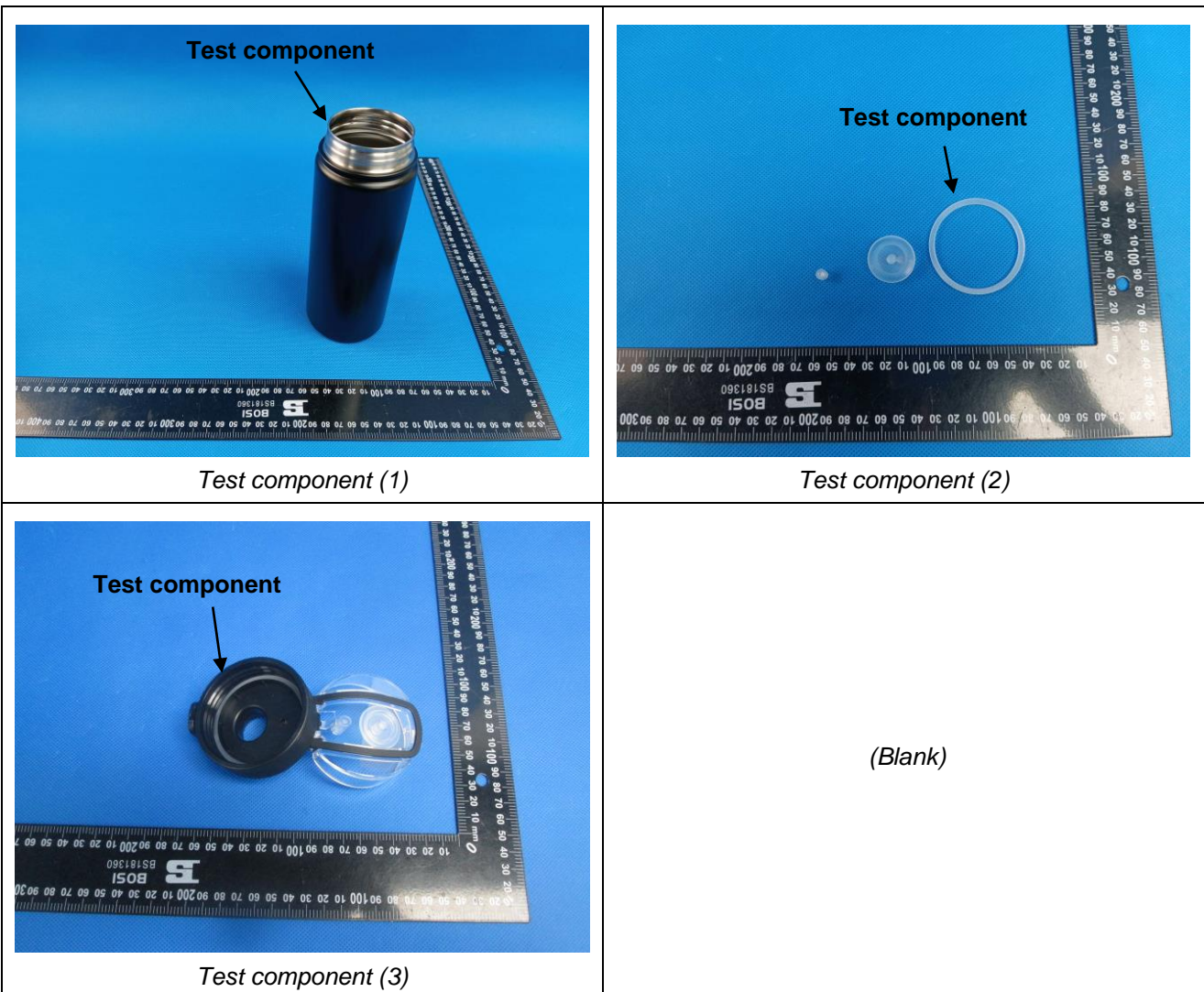

Devin Ai
Laboratory Manager

Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory.

Sample Descriptions:

No.	Description(s)	Material(s) (claimed by applicant)
(1)	Water Bottles	Stainless steel 304
(2)	Silicone seal ring / Nozzle seat / Vent seal	Silicone (Transparent)
(3)	Lid	PP (Black)

Sample photos



TEST RESULTS

1. FDA General Recognized as Safe (GRAS)

Total Chromium content

By acid digestion followed by Inductively Coupled Plasma Emission Spectroscopic analysis.

Parameter	Result (%)	MDL (%)	Limit (%)
	(1)		
Tot. Chromium (Cr)	18.27	0.005	16 Min.

Remark:

1. MDL = Method Detection Limit

2. U.S. 21 CFR F.D.A. Regulation Part 177.2600 rubber articles intended for repeated use, Section (e) and (f)

With reference to the U.S. Food and Drug Administration 21 CFR Part 177.2600 - rubber articles intended for repeated use, Section (e) and (f).

Parameter		Test condition	Result (mg/in ²)	MDL (mg/in ²)	Limit (mg/in ²)
			(2)		
(a)	Total extractives in water	Reflux temperature, first 7 hours	<0.20	0.20	20
		Reflux temperature, succeeding 2 hours	0.36	0.20	1
(b)	Total extractives in n-hexane	Reflux temperature, first 7 hours	4.48	0.20	175
		Reflux temperature, succeeding 2 hours	0.37	0.20	4

Remark:

1. mg/in² = Milligram per square inch

2. U.S. 21 CFR F.D.A. Regulation Part 177.1520 Clause 1.1a and 1.1b for polypropylene

With reference to the U.S. Food and Drug Administration 21 CFR Part 177.1520 Clause 1.1b.

	Parameter	Result	MDL	Limit
		(3)		
a)	Density	0.907	--	0.880-0.913
b)	Melting Point (°C)	155	--	150-180 (1.1b)
c)	Maximum extractable fraction in n-hexane, % (w/w)	1.04	0.5	6.4
d)	Maximum extractable fraction in xylene, % (w/w)	<0.50	0.5	9.8

Remark:

1. % = Percentage
2. MDL = Method Detection Limit

---End of Report---