

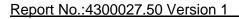
DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

Flashbay Electronics Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town, Huiyang District, Huizhou City, Guangdong Province, P.R.China DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China Tel.: +86 20 6661 2000 Fax: +86 20 6661 2001

Contact Devin Ai Tel.: +86 20 6684 3294 E-Mail: devin.ai@dekra.com Page 1 of 9

TEST REPORT

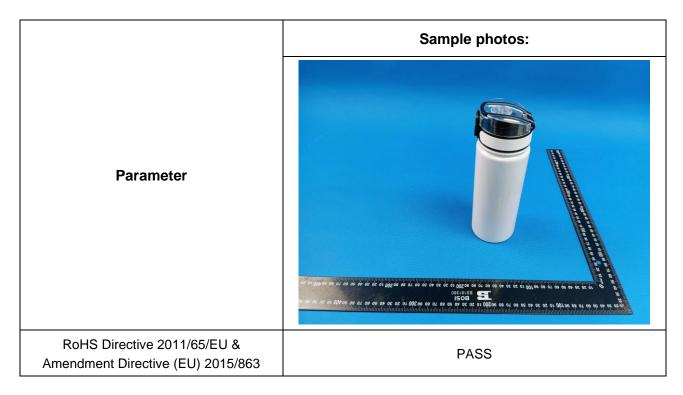
Test Report No. Project No. Test Report Date	::	4300027.50 Version 1 4300027.00 2023-02-26
Job No.	:	23-00226
Applicant	:	Flashbay Electronics
		Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town, Huiyang District, Huizhou City, Guangdong Province, P.R.China
Product Name	:	Water Bottles
Model No.	:	Aqualok Metal/QLM
Reference Information	:	Annex 1 (List was provided by applicant)
Test Requested	:	 RoHS Directive 2011/65/EU & Amendment Directive (EU) 2015/863 Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP)
Test Method	:	Please refer to next pages
Sample Received	:	2023-02-16
Testing Period	:	2023-02-16 to 2023-02-243
Test Results		
- following pages -		





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Resume:



Guangzhou, February 26, 2023 Signed for and on behalf of **DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch** Chemical & Mechanical

Devin Ko

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.



TEST RESULTS

RoHS Directive 2011/65/EU & Amendment Directive (EU) 2015/863

Test Components:

Test No.	Name of material	Photograph
1	Transparent plastic	1
2	Black plastic	
3	Translucent rubber	
4	Translucent rubber	



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Test No.	Name of material	Photograph
5	Silvery metal	
6	Silvery metal	5 6
7	White rubber	8
8	Black plastic	
9	Black plastic	
10	Black plastic	
11	Transparent glue	11
12	Silvery metal	
13	Silvery metal	12



Test No.	Name of material	Photograph
14	Translucent rubber	14
15	Silvery metal	15
16	White coating	

A. Screening Test

Teet No			Result (mg/kg)		
Test No.	Pb	Cd	Hg	Cr	Br
1	BL	BL	BL	BL	BL
2	BL	BL	BL	BL	BL
3	BL	BL	BL	BL	BL
4	BL	BL	BL	BL	BL
5	BL	BL	BL	IC	N.A.
6	BL	BL	BL	IC	N.A.
7	BL	BL	BL	BL	BL
8	BL	BL	BL	BL	BL
9	BL	BL	BL	BL	BL
10	BL	BL	BL	BL	BL
11	BL	BL	BL	BL	BL
12	BL	BL	BL	IC	N.A.
13	BL	BL	BL	IC	N.A.
14	BL	BL	BL	BL	BL
15	BL	BL	BL	IC	N.A.
16	BL	BL	BL	BL	BL

Remark:

1. mg/kg = Milligram per kilogram

2. BL = Below Limit



- 3. OL = Over Limit, represents test item needs further confirmation.
- 4. IC = Inconclusive, represents test item needs further confirmation.
- 5. N.A. = Not Applicable
- 6. There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There are the results on total Cr while test item on restricted substance is Cr(VI).

Disclaimers:

This XRF screening result is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.).

B. Chemical Test

Toot Itom	Result					
Test Item	(5)	(6)	(12)	(13)	(15)	
Hexavalent Chromium Cr(VI)	Negative	Negative	Negative	Negative	Negative	

Remark:

- 1. N.D. = Not Detected, less than MDL
- 2. mg/kg = Milligram per kilogram
- 3. According to IEC 62321-7-1:2015 Ed.1.0, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) in coating layer, Positive = Presence of Cr(VI) in coating layer.

Note:

Results were obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) were recommended to be performed, if the concentration exceeded the warning value according to IEC 62321-3-1:2013 Ed. 1.0 (unit: mg/kg).

C. Phthalates Test

For plasticised material(s) in test components

Test Item	Result	MDL	Limit	
Test tieffi	(4)	(16)	(mg/kg)	(mg/kg)
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	50	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	50	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	50	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	50	1000

Tast Hars		MDL	Limit #		
Test Item	(1)/(2)/(3)	(7)/(8)/(9)	(10)/(11)/(14)	(mg/kg)	(mg/kg)
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	50	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	50	1000



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Test Item		MDL	Limit #		
Test Item	(1)/(2)/(3)	(7)/(8)/(9)	(10)/(11)/(14)	(mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	50	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	50	1000

Remark:

- 1. N.D. = Not Detected (below MDL)
- 2. MDL = Method Detection Limit
- 3. mg/kg = Milligram per kilogram
- # = The limit for the test result is 1/n of the value in column (where "n" is the number of mixed samples).

Test Method

A. Screening test by XRF spectroscopy: With reference to IEC 62321-3-1: 2013 Ed. 1.0 Screening - Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry.

	0		
Element	Polymer Material	Metallic Material	Composite Material
Cadmium (Cd)	BL≤70 <ic<130≤ol< td=""><td>BL≤70<ic<130≤ol< td=""><td>LOD<ic<150≤ol< td=""></ic<150≤ol<></td></ic<130≤ol<></td></ic<130≤ol<>	BL≤70 <ic<130≤ol< td=""><td>LOD<ic<150≤ol< td=""></ic<150≤ol<></td></ic<130≤ol<>	LOD <ic<150≤ol< td=""></ic<150≤ol<>
Lead (Pb)	BL≤700 <ic<1300≤ol< td=""><td>BL≤700<ic<1300≤ol< td=""><td>BL≤500<ic<1500≤ol< td=""></ic<1500≤ol<></td></ic<1300≤ol<></td></ic<1300≤ol<>	BL≤700 <ic<1300≤ol< td=""><td>BL≤500<ic<1500≤ol< td=""></ic<1500≤ol<></td></ic<1300≤ol<>	BL≤500 <ic<1500≤ol< td=""></ic<1500≤ol<>
Mercury (Hg)	BL≤700 <ic<1300≤ol< td=""><td>BL≤700<ic<1300≤ol< td=""><td>BL≤500<ic<1500≤ol< td=""></ic<1500≤ol<></td></ic<1300≤ol<></td></ic<1300≤ol<>	BL≤700 <ic<1300≤ol< td=""><td>BL≤500<ic<1500≤ol< td=""></ic<1500≤ol<></td></ic<1300≤ol<>	BL≤500 <ic<1500≤ol< td=""></ic<1500≤ol<>
Bromine (Br)	BL≤300 <ic< td=""><td>N.A.</td><td>BL≤250<ic< td=""></ic<></td></ic<>	N.A.	BL≤250 <ic< td=""></ic<>
Chromium (Cr)	BL≤700 <ic< td=""><td>BL≤700<ic< td=""><td>BL≤500<ic< td=""></ic<></td></ic<></td></ic<>	BL≤700 <ic< td=""><td>BL≤500<ic< td=""></ic<></td></ic<>	BL≤500 <ic< td=""></ic<>

Screening limits in mg/kg for regulated elements in various material.

BL = Below Limit, OL = Over Limit, IC=Inconclusive, N.A. = Not Applicable, LOD=Limit of Detection

B. Chemical Test

Test Item	Test Method	Test Instrument	MDL	EU RoHS Limit (mg/kg)
Lead (Pb)	IEC 62321-5: 2013 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	1000
Cadmium (Cd)	IEC 62321-5: 2013 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	100
Mercury (Hg)	IEC 62321-4: 2013 AMD 1:2017 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	1000
Hexavalent	IEC 62321-7-1:2015 Ed.1.0 Sec.7	UV-Vis	0.1µg/cm ²	1000
Chromium (Cr(VI))	IEC 62321-7-2:2017 Ed.1.0 Sec.7	UV-Vis	2mg/kg	1000
Polybrominated Biphenyls (PBBs)	IEC 62321-6: 2015 Ed. 1.0 Sec.8	GC-MS	10mg/kg	1000
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6: 2015 Ed. 1.0 Sec.8	GC-MS	10mg/kg	1000
Bis(2-ethylhexyl) phthalate (DEHP)	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000
Butyl benzyl phthalate (BBP)	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000
Dibutyl phthalate (DBP)	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000



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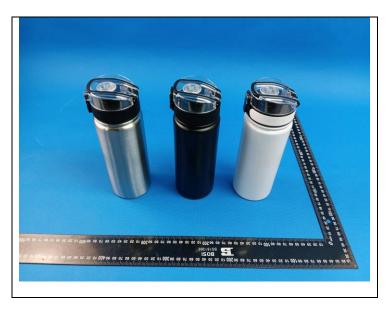
Diisobutyl phthalate (DIBP) IEC 62321-8: 2017 Ed. 1.0 Sec.8 GC-MS 50mg/kg 1000	Test Item	Test Method	Test Instrument	MDL	EU RoHS Limit (mg/kg)
	Diisobutyl phthalate (DIBP)	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000



Annex 1: Reference Information:

Remark: The information of Annex was submitted by the client. DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch takes no responsibility for any mistake caused by inaccuracy and/or invalid information.

The product photos of reference numbers were submitted by applicant.



----End of Report---