



## FLASHBAY ELECTRONICS

**Technical Report:** (8819)338-0056(R1)

Oct 30, 2020

Date Received: Dec 4, 2019

Page 1 of 7

FLASHBAY ELECTRONICS  
BUILDING 2, JIXUN INDUSTRIAL PARK, DONG'AO  
VILLAGE, SHATIAN TOWN, HUIYANG DISTRICT,  
HUIZHOU CITY, GUANGDONG PROVINCE,  
P.R.CHINA

Sample Description:	BOTTLE	Sample Size:	43
Vendor:	N/A	Style No(s):	WAVE, PACIFIC, REFRESH, FIT, SHAKER.
Manufacturer:	N/A	SKN/SKU No.:	NOT PROVIDE
Labeled Age Grade:	NOT RECORD	PO No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	Ref #:	NOT PROVIDE
Client Specified Age Grade:	NOT SPECIFIED	Country of Origin:	NOT PROVIDE
Tested Age Grade:	N/A	Assortment No.:	NOT PROVIDE
UPC Code:	N/A	Test Finished Date:	OCT 30, 2020
Test Starting Date:	DEC 4, 2019		

### EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The heavy metals and flame retardants content requirements of the European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendment Directive 2015/863/EU.
- The BBP/DBP/DEHP/DIBP content requirements of the European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendment Directive 2015/863/EU.

Note: The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed.



BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

Harvey Xue  
Manager, Analytical Lab

RT/Tina Ye

### REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@bureauveritas.com

Business Contact: (86) 0769 85893595

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**Tested Component(s) Description List:**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Clear plastic	Suction nozzle	1
I002	Blue soft plastic	Suction nozzle plug	1
I003	Transparent soft plastic	Seal ring	1,2,3,4
I004	Transparent white plastic	Straw	1
I005	Red plastic	Cap	-
I006	Transparent plastic	Bottle	1,2
I007	White soft plastic	Suction nozzle plug & ferrule	1,2,3,4
I008	Translucent plastic	Bottle	3,4
I009	Red plastic	Lid	-

Remark:

- The items 005 was resubmitted by client dated on Jan 14, 2020.
- The items 009 was provided by client dated on Oct 26, 2020.



**RESULTS:**

**Heavy Metals and Flame Retardants Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendment Directive 2015/863/EU**

Test Method : See Appendix.

See Analytes (Parameter) and their corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Metallic material
	Type II	Glass or ceramic material
	Type III	Other non-metallic material except Type II

-	Unit	Req.	Result				
Test Item(s)	-	-	I001+I002+I003	I004+I006	I005	I007+I008	I009
Type	-	III	III	III	III	III	III
Parameter	-	-	-				
Lead (Pb)	mg/kg	1000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	100	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	1000	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	1000	ND	ND	ND	ND	ND
PBBs	mg/kg	1000	ND	ND	ND	ND	ND
MonoBB	mg/kg	-	ND	ND	ND	ND	ND
DiBB	mg/kg	-	ND	ND	ND	ND	ND
TriBB	mg/kg	-	ND	ND	ND	ND	ND
TetraBB	mg/kg	-	ND	ND	ND	ND	ND
PentaBB	mg/kg	-	ND	ND	ND	ND	ND
HexaBB	mg/kg	-	ND	ND	ND	ND	ND
HeptaBB	mg/kg	-	ND	ND	ND	ND	ND
OctaBB	mg/kg	-	ND	ND	ND	ND	ND
NonaBB	mg/kg	-	ND	ND	ND	ND	ND
DecaBB	mg/kg	-	ND	ND	ND	ND	ND
PBDEs	mg/kg	1000	ND	ND	ND	ND	ND
MonoBDE	mg/kg	-	ND	ND	ND	ND	ND
DiBDE	mg/kg	-	ND	ND	ND	ND	ND
TriBDE	mg/kg	-	ND	ND	ND	ND	ND
TetraBDE	mg/kg	-	ND	ND	ND	ND	ND
PentaBDE	mg/kg	-	ND	ND	ND	ND	ND
HexaBDE	mg/kg	-	ND	ND	ND	ND	ND
HeptaBDE	mg/kg	-	ND	ND	ND	ND	ND
OctaBDE	mg/kg	-	ND	ND	ND	ND	ND
NonaBDE	mg/kg	-	ND	ND	ND	ND	ND
DecaBDE	mg/kg	-	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS



**RESULTS:**

Note / key:

ND = Not detected	">" = Greater than	Req. = Requirement
NR = Not requested	mg/kg = milligram(s) per kilogram = ppm = part(s) per million	
NA = Not Applicable	10000 mg/kg = 1 %	% = percent
Detection Limit (mg/kg) :		
For Type I:	Each (Pb, Cd & Hg) 10	
For Type II:	Each (Pb, Cd, Hg & Cr VI) 10	
For Type III:	Polymers & Electronics - Each (Pb, Cd, Hg & Cr VI): 10; Each (PBBs & PBDEs): 50 Others - Each (Pb, Cd & Hg): 10; Cr VI: 3.0; Each (PBBs & PBDEs): 50	

Remark:

- The list of analytes is summarized in table of Appendix.
- According to European Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.

**APPENDIX:**

List of Analytes and their Corresponding Test Methods [ European Council Directive 2011/65/EU ] :		
No.	Name of Analytes	Test Method(s)
1	Lead (Pb)	With reference to International Standard IEC 62321-5: 2013.
2	Cadmium (Cd)	
3	Mercury (Hg)	With reference to International Standard IEC 62321-4: 2017.
4	Chromium VI (Cr VI)	Metal : With reference to International Standard IEC 62321-7-1: 2015. Polymers and Electronics : With reference to European Standard EN 62321-7-2: 2017. Leather : International Standard ISO 17075-1:2017. Other than Metal, Leather, Polymers and Electronics: With reference to International Standard ISO 17075-1:2017.
5	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to International Standard IEC 62321-6: 2015.
6	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.	



**RESULTS:**

**BBP/DBP/DEHP/DIBP Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendment Directive 2015/863/EU**

Test Method : With reference to International Standard IEC 62321-8:2017

Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
I001+I002+I003	ND	ND	ND	ND	PASS
I004+I006	ND	ND	ND	ND	PASS
I005	ND	ND	ND	ND	PASS
I007+I008	ND	ND	ND	ND	PASS
I009	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate (CAS No: 85-68-7)      DBP = Dibutyl phthalate (CAS No: 84-74-2)  
DEHP = Di(2-ethylhexyl) phthalate (CAS No: 117-81-7)      DiBP = Diisobutyl phthalate (CAS No: 84-69-5)  
ND = Not detected      % = percent      10000 mg/kg = 1 %  
mg/kg = milligram(s) per kilogram  
Detection Limit (%) : Each 0.005

Remark:

- The amendment will be effective on 22 July 2019. For medical devices and control instruments, effective date will be 22 July 2021.
- This report is to supersede BV(Dong guan) report No. (8819)338-0056 dated on Feb 24, 2020.

**RESULTS:**



END OF REPORT