



TEST REPORT

NINGBO GAOLI ELECTRONIC TECHNOLOGY CO LTD

Technical Report: (3225)022-0540

Date Received: Dec.12, 2024
NINGBO GAOLI ELECTRONIC TECHNOLOGY CO LTD
NO.8 XINYUAN 1ST ROAD,BINHAI INDUSTRIAL ZONE PHASE
II, XIDIAN TOWN,NINGHAI ,NINGBO

Dec.20, 2024

Page 1 of 7

SAMPLE INFORMATION:

Sample Description:	Flashlight	Style No.(s):	MY-85022BL
Sample Status :	INTACT	PO No.:	30220858
Manufacturer:	/	Country of Origin:	CHINA
Buyer:	/	Country of Destination:	OVERSEAS

Above sample information was provided and confirmed by customers, BV is not responsible for its accuracy or completeness.

EXECUTIVE SUMMARY:

TEST REQUESTED	CONCLUSION
Compliance Test - Heavy Metals, 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 Amendments	PASS
Compliance Test - Phthalate Test – (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS

Note: Samples are provided by customers.
The tested part of the sample was specified by client.
The composite testing was performed as per client's request.
The test conclusion was given based on the results of tested part.

REMARK

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

Customer service

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Compliance Test - Heavy Metals, 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 Amendments

Test Method : See Appendix.

See Analytes and their corresponding Maximum Allowable Limit in Appendix

-			Result					Conclusion
Parameter			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
Tested components of MY-85022BL								
1	Black soft plastic	Housing	ND	ND	ND	ND	ND	PASS
2	Blue plastic	Housing	ND	ND	ND	ND	ND	PASS
3	Black rope	Housing	ND	ND	ND	ND	ND	PASS
4	Blue plastic	Housing	ND	ND	ND	ND	ND	PASS
5	Transparent plastic	Housing	ND	ND	ND	ND	ND	PASS
6	Black plastic	Part	ND	ND	ND	ND	ND*	PASS
7	Gold metal	Part	<500	ND	ND	ND	NA	PASS
8	Silver metal solder	Solder	<500	ND	ND	ND	NA	PASS
9	Silvery metal	Part	ND*	ND*	ND	ND	NA	PASS
10	Brown PCB	PCB board	ND	ND	ND	ND	ND*	PASS
11	Black resistor	PCB board	ND	ND	ND	ND	ND	PASS
12	LED	PCB board	ND	ND	ND	ND	ND*	PASS
13	Diode	PCB board	ND	ND	ND	ND	ND	PASS
14	Silver plastic	Part	ND	ND	ND	ND	ND*	PASS
15	Silver metal spring	Part	<500	ND	ND	ND	NA	PASS
16	Black plastic	Part	ND	ND	ND	ND	ND	PASS
17	White plastic	Switch	ND	ND	ND	ND	ND	PASS
18	Black plastic	Switch	ND	ND	ND	ND	ND	PASS
19	Black metal spring	Switch	<500	ND	ND	ND	NA	PASS
20	Silvery metal	Part	ND	ND	ND	ND	NA	PASS

Note / Key :

ND = Not detected

NR = Not requested

Detection Limit: See Appendix.

">" = Greater than

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

NA = Not applicable

"<" = Less than

EX= Exempted

Remark :

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.

TEST RESULT

Compliance Test - Phthalate Test – (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : Reference to IEC 62321-8: 2017.

Maximum Allowable Limit : 0.1% (Each)

Parameter	CAS No.	Unit	MDL	Result			
				1+2+4	3	5+6+10	11+12+13
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	0.019	0.017	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

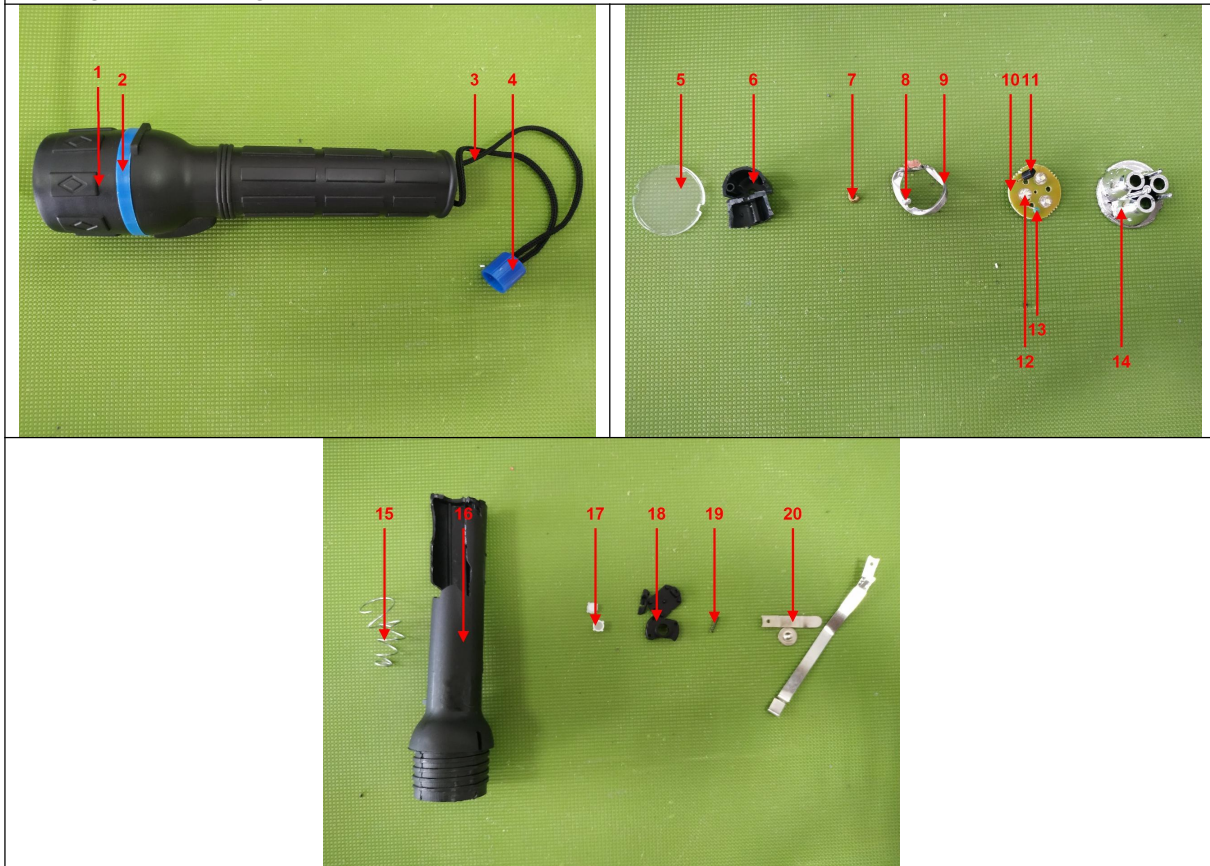
Parameter	CAS No.	Unit	MDL	Result	
				14+16	17+18
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	0.027	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND
Conclusion	-	-	-	PASS	PASS

Note: mg/kg= milligram per kilogram % = percentage 1 mg/kg = 0.0001%
MDL = Method Detection Limit ND = Not Detected (< MDL) “-“ = Not Regulated

Comment :

Photograph(s) [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

Photograph depicting Test Item(s)



APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

No.	Name of Analyte(s)	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) ^[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10 ^[b]	1 000
2	Cadmium (Cd)	50	50	50	10 ^[b]	100
3	Mercury (Hg)	100	200	200	10 ^[c]	1 000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3 ^[g, h] / 10 ^[d] / See ^[e, i]	1 000 / Negative ^[j]
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50 ^[f]	Sum 1 000
8	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)	NA	NA	NA	Each 50 ^[f]	Sum 1 000

NA = Not applicable IEC = International Electrotechnical Commission

^[a] Test method with reference to International Standard IEC 62321-3-1: 2013.

^[b] Test method with reference to International Standard IEC 62321-5: 2013.

^[c] Test method with reference to International Standard IEC 62321-4: 2013+AMD1: 2017 CSV.

^[d] Polymers and Electronics - Test method with reference to International Standard IEC 62321-7-2: 2017.

^[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015.

^[f] Test method with reference to International Standard IEC 62321-6: 2015.

^[g] Leather - Test method International Standard ISO 17075: 2017.

^[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2017.

^[i] Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).

Testing Approach [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

The testing approach was with reference to the following document(s).

- 1 International Standards IEC 62321-1: 2013 and IEC 62321-2: 2013
- 2 "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)
- 3 "RoHS Regulations - Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)
- 4 "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)



**BUREAU
VERITAS**

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Page 6 of 7

SAMPLE REFERENCE PHOTO:



Appendix **Additional Model**

MY-85020L/MY-85019L/MY-85022BL/MY-85022AL/MY-85022L/MY-85023BL/MY-85023AL/MY-85023L/
MY-85018L/MY-85028L/MY-85028CL/MY-85028BL/MY-85018AL/MY-85018CL/MY-85019BL/MY-85034/
MY-85033/MY-85002/MY-85074/MY-85031/MY-85029/MY-85030/MY-85031/MY-85032/MY-85027/MY-85001/
MY-85007/MY-85008/MY-88069/MY-85003/MY-85004/MY-85005/MY-85006/MY-85025/MY-85026/MY-85033/
MY-85035/MY-85036/MY-85037/MY-78061/MY-78024

Note: The information in this Appendix is provided by client. Since the client was not able to provide the sample of additional Style, above additional Style(s) hasn't been tested, but only based on the guarantee letter provided by the client. Bureau Veritas-CPS takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the client. The client will take the responsibility of all discrepancy and risk.

-- END OF REPORT --