



TEST REPORT

NINGBO GAOLI ELECTRONIC TECHNOLOGY CO.,LTD

Technical Report: (3224)536-0532

October.18,2024

Date Received: October.11,2024

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NINGBO GAOLI ELECTRONIC TECHNOLOGY CO.,LTD
NO.8 XINYUAN 1ST ROAD, BINHAI INDUSTRIAL ZONE PHASE
II,XIDIAN TOWN,NINGHAI,NINGBO,ZHEJIANG.

SAMPLE INFORMATION:

Sample Description:	TOUCH LIGHT	Style No.(s):	MY-83105/MY-83114/MY-83115
Sample Status :	3LED/1SMD/15LM	PO No.:	/
Manufacturer:	/	Country of Origin:	/
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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BUREAU VERITAS TESTING TECHNICAL SERVICE (ZHEJIANG) CO.,LTD

Sean Wang

PREPARED BY : _____ Sylvia Zhou

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This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

TEST RESULT

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					
Parameter			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	Conclusion
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
Tested components of MY-83105								
1	Black plastic	Pedestal	ND	ND	ND	ND	ND	PASS
2	White adhesive plastic	Pedestal	ND	ND	ND	ND	ND	PASS
3	White sticker	Pedestal	ND	ND	ND	ND	ND	PASS
4	Transparent plastic	Shell	ND	ND	ND	ND	ND	PASS
5	Spring	Inner	ND	ND	ND	ND	NA	PASS
6	White plastic	Shell	ND	ND	ND	ND	ND	PASS
7	Yellow plastic	Shell	ND	ND	ND	ND	ND	PASS
8	Pink plastic	Shell	ND	ND	ND	ND	ND	PASS
9	Screw	Pedestal	ND	ND	ND	ND	NA	PASS
10	Silvery plastic	Inner	ND	ND	ND	ND	ND*	PASS
11	Blue cable	Battery box	ND	ND	ND	ND	ND	PASS
12	White cable jacket	Battery box	ND	ND	ND	ND	ND	PASS
13	Silvery metal	Battery box	ND	ND	ND	ND	NA	PASS
14	Solder	Battery box	ND	ND	ND	ND	NA	PASS
15	Copper wire	Battery box	ND	ND	ND	ND	NA	PASS
16	Led lamp	Lamp	ND	ND	ND	ND	ND*	PASS
17	Diode	PCB board	ND	ND	ND	ND	ND	PASS
18	PCB board	PCB board	ND	ND	ND	ND	ND*	PASS
19	Spring	Switch	ND	ND	ND	ND	NA	PASS
20	Silvery with copper metal	Switch	ND	ND	ND	ND	NA	PASS
21	Gray plastic	Switch	ND	ND	ND	ND	ND	PASS
22	Silvery metal	Switch	ND	ND	ND	ND	NA	PASS
23	White plastic	Switch	ND	ND	ND	ND	ND	PASS
24	Silvery metal with golden coating	Switch	ND	ND	ND	ND	ND	PASS
25	Black plastic	Switch	ND	ND	ND	ND	ND	PASS



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Note / Key :

ND = Not detected

">" = Greater than

"<" = Less than

NR = Not requested

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

Detection Limit: See Appendix.

NA = Not applicable

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+25	2	3	4
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	ND	ND	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			
				6	7	8	10
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	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

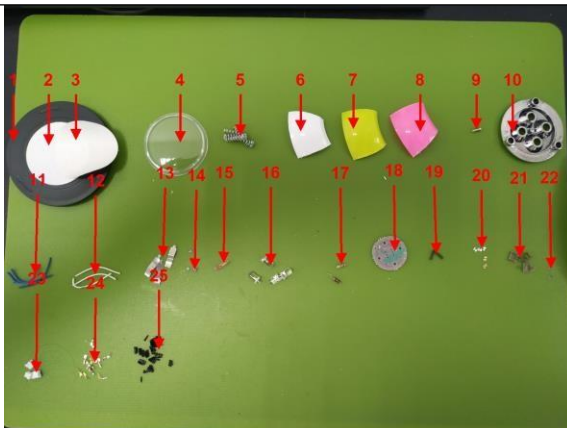
Parameter	CAS No.	Unit	MDL	Result		
				11+12	18	21+23
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

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.					
[j]	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)



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|---|---|
| 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) |



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SAMPLE REFERENCE PHOTO:



Appendix
Additional Model







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ATTACHMENT:

MY-83001,MY-83002,MY-83002B,MY-83003,MY-83004,MY-83005,MY-83006,MY-83007,MY-83008,MY-83008L,MY-83008B,MY-83009,MY-83010,MY-83011,MY-83021,MY-83021DL,MY-83022,MY-83023,MY-83024,MY-83025,MY-83026,MY-83027,MY-83028,MY-83029,MY-83030,MY-83031,MY-83031A,MY-83047,MY-83063,MY-83082,MY-83083,MY-83083A,MY-83084,MY-83085,MY-83086,MY-83087,MY-83087A,MY-83088,MY-83089,MY-83090,MY-83090A,MY-83091,MY-83091A,MY-83092,MY-83092A,MY-83093,MY-83093A,MY-83094,MY-83094A,MY-83095,MY-83095A,MY-83096,MY-83097,MY-83098,MY-83098B,MY-83099,MY-83100,MY-83101,MY-83102,MY-83104,MY-83105,MY-83105B,MY-83106,MY-83107,MY-83107A,MY-83108,MY-83108A,MY-83109,MY-83110,MY-83111,MY-83112,MY-83113,MY-83114,MY-83115,MY-83116,MY-83117,MY-83118,MY-83119,MY-83120,MY-83121,MY-83122,MY-83123,MY-83124,MY-83125,MY-83126,MY-83127,MY-83128,MY-83129,MY-83130,MY-83131,MY-83132,MY-83133,MY-83134,MY-83135,MY-83136,MY-83137,MY-83138,MY-83139,MY-83140,MY-83141,MY-83142,MY-83143,MY-83144,MY-83145,MY-83146,MY-83147,MY-83148,MY-83150,MY-83149,MY-83151,MY-83152,MY-83153,MY-83154,MY-83155,MY-83156,MY-83157MY-83158,MY-83159,MY-83160,MY-83162,MY83161

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 --