





中国认可 国际互认 检测 TESTING CNA S L5223

Test Report

Report No.: GNB190604131R1EN

Date: Aug. 01, 2019

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The following information was/were submitted and identified by/on behalf of the client:

Applicant : YUEQING DAIER ELECTRON CO., LTD.

Address : No.1636 Liuhuang Road, Xirendang Industrial Zone, Liushi Town, Yueqing City,

Zhejiang Province, China

Sample Name : Push Button switch

Sample Model : GQ19, LAS1-19F, LAS3-16F, GQ-12, GQ-16, GQ22, GQ25, GQ30

Sample Receive Date : Jun. 04, 2019

Sample Testing Period : Jun. 04, 2019 - Jun. 06, 2019

Test Result Summary:

As requested by the applicant, for details refer to attached page(s).

TEST SAMPLE(S)	TEST ITEM(S)	TEST REQUESTED	CONCLUSION(S)	
1, 2, 3, 4, 5, 6	Pb, Cd, Hg and CrVI content	RoHS Directive 2011/65/EU and its	PASS	
1, 2, 3, 4, 5, 6	Fb, Cd, Hg and Crvi content	amendment (EU) 2015/863		
	Pb, Cd, Hg, CrVI, PBBs, PBDEs	DoUS Directive 2011/65/ELL and its		
7, 8, 9	and Phthalates(DBP, BBP,	RoHS Directive 2011/65/EU and its	PASS	
	DEHP, DIBP) content	amendment (EU) 2015/863		

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Authorized signature:

Lab Manager: Gavin Zhou

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Test Result(s):

Test Sample Description:

Material No.	Material Description	
<u>1</u>	Silvery metal ring	
<u>2</u>	Silvery metal ring	
<u>3</u>	Silvery metal part	
<u>4</u>	Silvery metal part	
<u>5</u>	Silvery metal electric contact	
<u>6</u>	Silvery metal screw	
<u>7</u>	Blue transparent plastic part	
<u>8</u>	Transparent rubber part	
<u>9</u>	Blue plastic ring	

RoHS(Pb, Cd, Hg, CrVI, PBBs, PBDEs and Phthalates(DBP, BBP, DEHP, DIBP))

Test Method: Lead(Pb), Cadmium(Cd) -IEC 62321-5: 2013

Mercury(Hg) -IEC 62321-4: 2013

Chromium VI(CrVI): For Metal material –IEC 62321-7-1: 2015

For Polymer or Electronic material –IEC 62321-7-2: 2017

PBBs, PBDEs -IEC 62321-6: 2015

DBP, BBP, DEHP, DIBP -IEC 62321-8: 2017

Test item	Limit	11.5	<u>RL</u>	Result(s)		
	<u>Limit</u>	<u>Unit</u>		<u>01</u>	<u>02</u>	<u>03</u>
Lead(Pb)	1000	mg/kg	10	N.D.	21050*	151
Cadmium(Cd)	100	mg/kg	10	N.D.	35	N.D.
Mercury(Hg)	1000	mg/kg	10	N.D.	N.D.	N.D.
Chromium VI(CrVI)		μg/cm ²	0.10	N.D.	N.D.	N.D.
Conclusion(s)			PASS	PASS	PASS	

Test item	Lineit	<u>Unit</u>	<u>RL</u>	Result(s)		
	<u>Limit</u>			<u>04</u>	<u>05</u>	<u>06</u>
Lead(Pb)	1000	mg/kg	10	26560*	22	N.D.
Cadmium(Cd)	100	mg/kg	10	20	8695*	N.D.
Mercury(Hg)	1000	mg/kg	10	N.D.	N.D.	N.D.
Chromium VI(CrVI)		μg/cm ²	0.10	N.D.	N.D.	N.D.
Conclusion(s)			PASS	PASS	PASS	

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To at it a motor	<u>Limit</u>	<u>Unit</u>	<u>RL</u>		Result(s)		
Test item(s)				<u>07</u>	<u>08</u>	<u>09</u>	
Lead(Pb)	1000	mg/kg	10	N.D.	14	N.D.	
Cadmium(Cd)	100	mg/kg	10	N.D.	N.D.	N.D.	
Mercury(Hg)	1000	mg/kg	10	N.D.	N.D.	N.D.	
Chromium VI(CrVI)	1000	mg/kg	50	N.D.	N.D.	N.D.	
Dibutyl phthalate(DBP)	1000	mg/kg	50	N.D.	N.D.	N.D.	
Butyl benzyl phthalate(BBP)	1000	mg/kg	50	N.D.	N.D.	N.D.	
Di-2-ethylhexyl phthalate(DEHP)	1000	mg/kg	50	N.D.	N.D.	N.D.	
Di-iso-butyl phthalate(DIBP)	1000	mg/kg	50	N.D.	N.D.	N.D.	
Monobromobiphenyls		mg/kg	5	N.D.	N.D.	N.D.	
Dibromobiphenyls		mg/kg	5	N.D.	N.D.	N.D.	
Tribromobiphenyls		mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyls		mg/kg	5	N.D.	N.D.	N.D.	
Pentabromobiphenyls		mg/kg	5	N.D.	N.D.	N.D.	
Hexabromobiphenyls	/	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromobiphenyls	-	mg/kg	5	N.D.	N.D.	N.D.	
Octabromobiphenyls		mg/kg	5	N.D.	N.D.	N.D.	
Nonabromobiphenyls		mg/kg	5	N.D.	N.D.	N.D.	
Decabromobiphenyl		mg/kg	5	N.D.	N.D.	N.D.	
Group PBBs	1000	mg/kg		N.D.	N.D.	N.D.	
Monobromodiphenyl ethers		mg/kg	5	N.D.	N.D.	N.D.	
Dibromodiphenyl ethers	8 = 8	mg/kg	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ethers		mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ethers	-	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ethers		mg/kg	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ethers		mg/kg	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ethers		mg/kg	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ethers		mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ethers		mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether		mg/kg	5	N.D.	N.D.	N.D.	
Group PBDEs	1000	mg/kg		N.D.	N.D.	N.D.	
<u>C</u>	onclusion(s)			PASS	PASS	PASS	







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Notes: 1. 1000 mg/kg = 0.1%;

2. RL = Reporting Limit;

3. N.D. = Not detected (<RL);

4. "*" = Exemption item.

According to the declaration from the client, Lead(Pb) in No.2 and No.4 are exempted by EU RoHS Directive 2011/65/EU based on: Copper alloy containing up to 4% lead by weight; Cadmium (Cd) in No.5 is exempted by EU RoHS Directive 2011/65/EU based on: Cadmium and its compounds in electrical contacts.

5. According to IEC 62321-7-1: 2015, explanation of result on Cr(VI) for metal sample see below table.

Colorimetric result (Cr(VI) concentration)	Qualitative result		
The sample solution is < the 0.10	The sample is negative for Cr(VI) – The Cr(VI) concentration is		
ug/cm ² equivalent comparison	below the limit of quantification. The coating is considered a		
standard solution	non-Cr(VI) based coat ng.		
The sample solution is ≥ the 0.10	The result is considered to be inconclusive – Unavoidable coating		
ug/cm² and ≤ the 0.13 ug/cm²	variations may influence the determination.		
equivalent comparison standard	Recommendation: if addition samples are available, perform a		
solutions	total of 3 trials to increase sampling surface area. Use the		
	averaged result of the 3 trials for the final determination.		
The sample solution is > the 0.13	The sample is positive for Cr(VI) – The Cr(VI) concentration is		
ug/cm ² equivalent comparison	above the limit of quantification and the statistical margin of error.		
standard solution	The sample coating is considered to contain Cr(VI).		

Negative = Absence of Cr(VI), Inconclusive = Maybe exist Cr(VI), Positive = Presence of Cr(VI).



Remark: This report replaces the report No. GNB190604131EN, Date: Jul. 29, 2019.

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Sample Photo(s):



GIG authenticate the photo(s) on original report only

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