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Company Name DONGGUAN AILLEN ELECTRONIC TECHNOLOGY CO., LTD.

shown on Report

Address NO.28, JINGGANG ZHONG ROAD, SHATIAN TOWN, DONGGUAN CITY,

GUANGDONG PROVINCE, P. R. CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name Anti-pulse Non-inductive Resistor

Sample Received Date Jul. 15, 2024

Testing Period Jul. 15, 2024 to Jul. 24, 2024

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg),

Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs),

Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP,

DIBP) in the submitted sample(s).

Test Method/Test Result(s) Please refer to the following page(s).

Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with	PASS
	amendment (EU) 2015/863	1A33

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Date

Hill Zheng Technical Manager

flill

ing International Group Co.,Ltd.

No. R677505163

Jul. 24, 2024

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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Test Method

Tested Item(s)	Test Method	Measured Equipment(s)	
Lead (Pb)	IEC 62321-5:2013	ICP-OES	
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	
	IEC 62321-7-1:2015	UV-Vis	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
	Total Chromium by IEC 62321-5:2013	UV-VIS/ICP-UES	
Polybrominated Biphenyls (PBBs)*	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers (PBDEs)*	IEC 62321-6:2015	GC-MS	
Phthalates (DBP, BBP, DEHP, DIBP)*	IEC 62321-8:2017	GC-MS	

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Test Result(s)

Tested Item(s)	Result		MDL	Limit
rested tem(s)	1	2	IVIDE	Limit
Lead (Pb)	N.D.	13 mg/kg	10 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	10 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	10 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	-	N.D. [▼]	0.10 μg/cm ²	1000 mg/kg
			(LOQ)	1000 mg/kg
	N.D.		20 mg/kg	1000 mg/kg

Tested Item(s)	Result	MDL	Limit
Tested Item(s)	2	NIDL	Limit
Polybrominated Biphenyls (PBBs	s)*		
Monobromobiphenyl	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	100 mg/kg	
Pentabromobiphenyl	N.D.	100 mg/kg	1000 mg/kg
Hexabromobiphenyl	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	100 mg/kg	

Tested Item(s)	Result	- MDL	Limit
rested item(s)	2	MIDL	Limit
Polybrominated Diphenyl Ethers	(PBDEs)*		
Monobromodiphenyl ether	N.D.	100 mg/kg	
Dibromodiphenyl ether	N.D.	100 mg/kg	
Tribromodiphenyl ether	N.D.	100 mg/kg	
Tetrabromodiphenyl ether	N.D.	100 mg/kg	
Pentabromodiphenyl ether	N.D.	100 mg/kg	1000
Hexabromodiphenyl ether	N.D.	100 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	100 mg/kg	
Octabromodiphenyl ether	N.D.	100 mg/kg	
Nonabromodiphenyl ether	N.D.	100 mg/kg	
Decabromodiphenyl ether	N.D.	100 mg/kg	



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Tested Item(s)	Result	MDL	Limit
	2		
Phthalates (DBP, BBP, DEHP, DI	BP)*		
Dibutyl phthalate (DBP)	ND	50 m o /lv o	1000 m a/lva
CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	ND	50 ··· - /1	1000 //
CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg	1000 mg/kg
(DEHP) CAS#:117-81-7			
Diisobutyl phthalate (DIBP)	ND	50 ··· - /1	1000 //
CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Tested Item(s)	Result	MDL	Limit
Tested Item(s)	1	MIDL	Lillit
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	100 mg/kg	
Pentabromobiphenyl	N.D.	100 mg/kg	1000 m a/lsa
Hexabromobiphenyl	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	100 mg/kg	



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Tested Item(s)	Result	MDL	Limit
rested tem(s)	1	WIDL	Limit
Polybrominated Diphenyl Ethers	(PBDEs)		
Monobromodiphenyl ether	N.D.	100 mg/kg	
Dibromodiphenyl ether	N.D.	100 mg/kg	
Tribromodiphenyl ether	N.D.	100 mg/kg	
Tetrabromodiphenyl ether	N.D.	100 mg/kg	
Pentabromodiphenyl ether	N.D.	100 mg/kg	1000 m ~ /lr ~
Hexabromodiphenyl ether	N.D.	100 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	100 mg/kg	
Octabromodiphenyl ether	N.D.	100 mg/kg	
Nonabromodiphenyl ether	N.D.	100 mg/kg	
Decabromodiphenyl ether	N.D.	100 mg/kg	

Tested Item(s)	Result	MDL	Limit
rested rem(s)	1	WIDE	
Phthalates (DBP, BBP, DEHP, DI	BP)		
Dibutyl phthalate (DBP)	N.D.	50 mg/kg	1000 ma/ka
CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	N D	50 m o /ls o	1000 m a/lra
CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg	1000 mg/kg
(DEHP) CAS#:117-81-7			
Diisobutyl phthalate (DIBP)	ND	50 mg/lrg	1000 mg/kg
CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	1	Green body(Tested as a whole)#
2	2	Silvery metal pin



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Remark: -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- -#The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.
- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -1000 mg/kg = 0.1%
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm²
- -▼The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Note: "*" indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

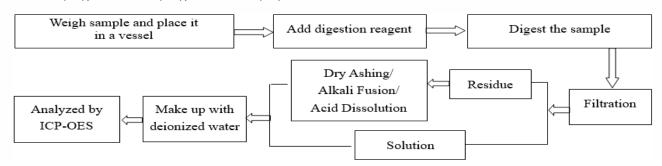
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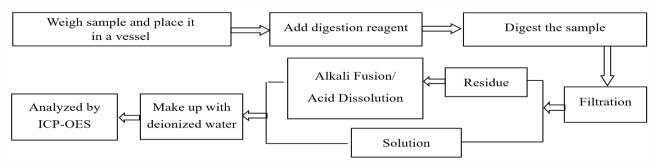
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Test Process

1. Lead (Pb), Cadmium (Cd), Chromium(Cr)

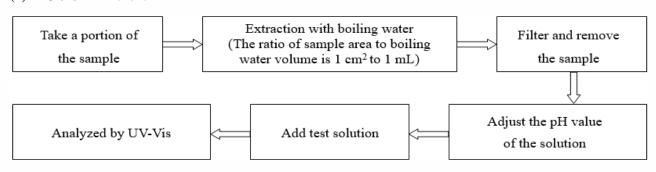


2. Mercury (Hg)

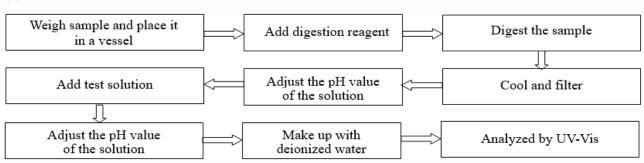


3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015



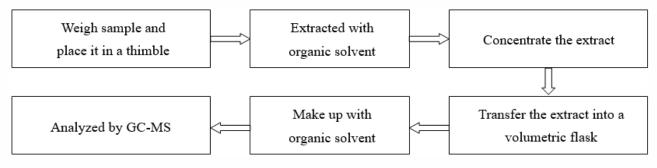
(2) IEC 62321-7-2:2017



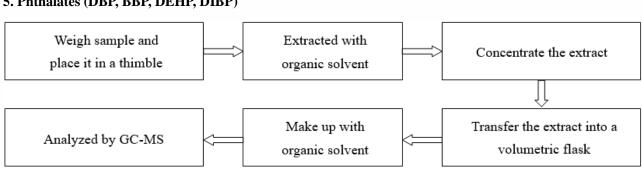


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4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates (DBP, BBP, DEHP, DIBP)



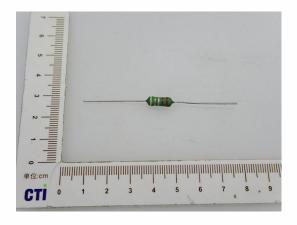
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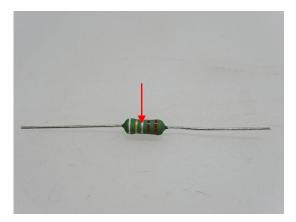


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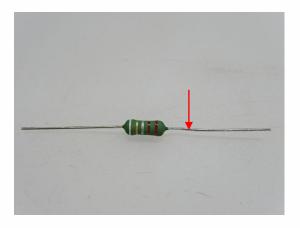
Photo(s) of the sample(s)

Final Product 1





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Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full;
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*** End of Report ***