



中国认可 国际互认 检测 TESTING **CNASL4429**

Test Report

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Report No. A2240632755101002

Company Name HOLY ELECTRONICS(CHANGSHU)CO.,LTD shown on Report Address LOCATED CHANGSHU XINZHUANG INDUSTRIAL PARK The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant Sample Name plate gold Color gold Sample Received Date Oct. 15, 2024 **Testing Period** Oct. 15, 2024 to Oct. 18, 2024 As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent **Test Requested** Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Beryllium(Be), Antimony(Sb), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS) in the submitted sample(s). **Test Method** Please refer to the following page(s). Test Result(s) Please refer to the following page(s). Conclusion **Tested Sample** According to standard/directive Result PASS Submitted Sample RoHS Directive 2011/65/EU with amendment (EU) 2015/863

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.



Song Yan

Date

Oct. 18, 2024

No. R449751071

No.3286 Chengyang Road, Xiangcheng District, Suzhou, Jiangsu



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Test	Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	Refer to IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	Refer to IEC 62321-5:2013	ICP-OES
Mercury (Hg)	Refer to IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
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
Beryllium(Be)	Refer to US EPA 3050B:1996 & US EPA 6010D:2018*	ICP-OES
Antimony(Sb)	Refer to US EPA 3050B:1996 & US EPA 6010D:2018*	ICP-OES
Fluorine (F)	Refer to EN 14582:2016*	IC
Chlorine (Cl)	Refer to EN 14582:2016*	IC
Bromine (Br)	Refer to EN 14582:2016*	IC
Iodine (I)	Refer to EN 14582:2016*	IC
Perfluorooctanoic Acid(PFOA)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007*	LC-MS-MS
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007*	LC-MS-MS





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Test Result(s)

Tested Item(s)	Result	MDI	Limit
	002	MDL	
Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. ▼	0.10 µg/cm ² (LOQ)	1000 mg/kg
Tested Item(s)	Result	MDL	Limit
	002		
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	
Hexabromobiphenyl	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	
Tested Item(s)	Result	MDL	Limit
Testeu Item(s)	002		Linnt
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	

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Test Result(s)

Tested Item(s)	Result 002	MDL	Limit
Phthalates (DBP, BBP, DEHP, DIBP)	002		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg
Tested Item(s)	Result 002		MDL
Beryllium (Be)	N.D.		10 mg/kg
Antimony (Sb)	N.D.		10 mg/kg
Tested Item(s)	Result 002		MDL
Fluorine (F)	N.D.		1 μg/cm ²
Chlorine (Cl)	N.D.		1 μg/cm ²
Bromine (Br)	N.D.		1 μg/cm ²
Iodine (I)	N.D.		$1 \ \mu g/cm^2$
Tested Item(s)	Result 002		MDL
Perfluorooctanoic Acid (PFOA)	N.D.		0.5 µg/m ²
Tested Item(s)	Result 002		MDL
Perfluorooctane Sulfonates (PFOS)	N.D.		0.5 μg/m ²

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Sample/Part Description

No.	CTI Sample ID	Description
1	002	Golden plating

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium, Antimony. -MDL = Method Detection Limit -N.D. = Not Detected (<MDL or LOQ)</td> -mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

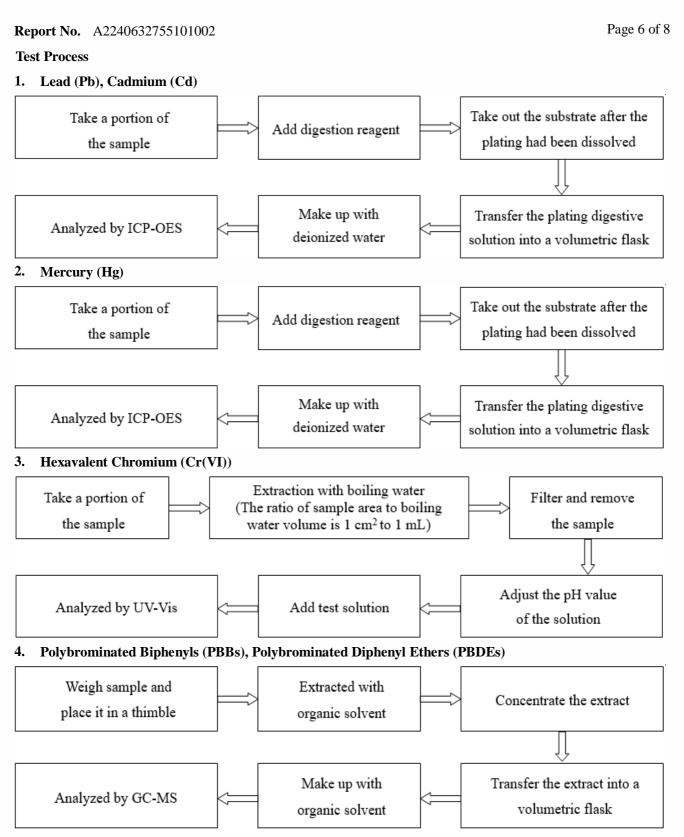
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \,\mu\text{g/cm}^2$ - The sample is negative for Cr(VI) – The Cr(VI) concentration is below $0.10 \,\mu\text{g/cm}^2$. The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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

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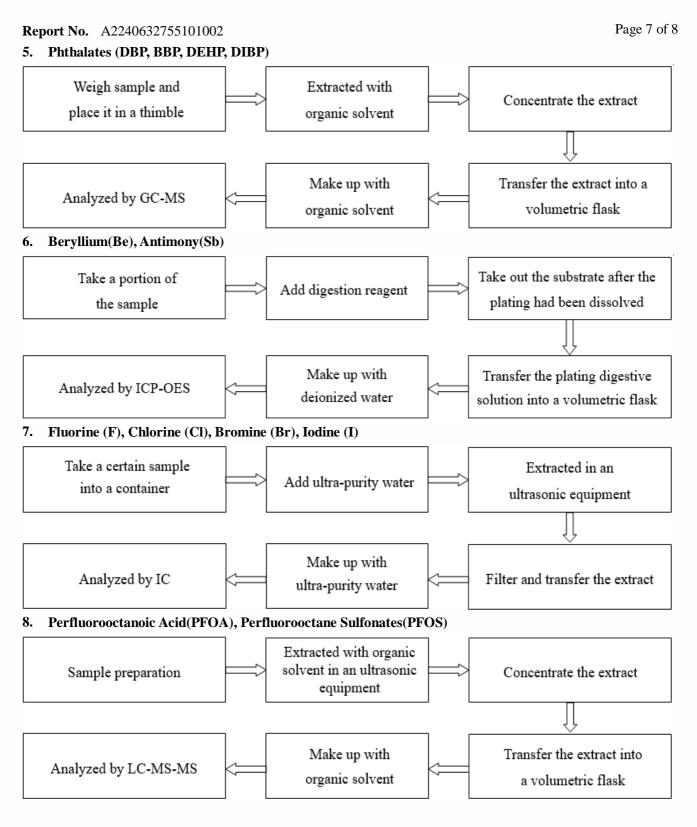
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Test Report



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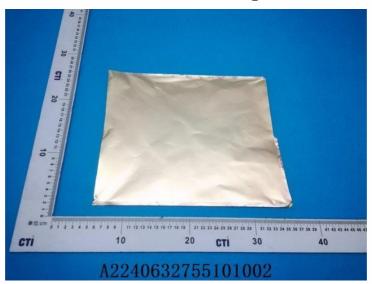


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Photo(s) of the sample(s)



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;
- 4. 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;
- 6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

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