



Report No. A2240752480101001

Company Name SUZHOU BANDL ELECTRONIC TECHNOLOGY CO.,LTD

shown on Report

Test Method

NO.1698 ZIZHU RODA, KUNSHAN CITY **Address**

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

Sample Name MATT TIN PLATING

Sample Received Date Dec. 2, 2024

Testing Period Dec. 2, 2024 to Dec. 6, 2024

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

> Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Arsenic(As), Beryllium(Be), Antimony(Sb), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Polychlorinated Biphenyls(PCBs), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS) in the submitted sample(s).

Please refer to the following page(s).

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

rection & Testing Services Testing International Pinbiao(Shanghai) Co., Ltd.

Chen kaimin Lab Manager Date

Dec. 6, 2024

No. R780111345

No.1351, Wanfang Road, Minhang District, Shanghai, China



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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 62321-12:2023	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS
Arsenic(As)	Refer to US EPA 3050B:1996 & US EPA 6010D:2018	ICP-OES
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
Polychlorinated Biphenyls(PCBs)	Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS
Perfluorooctanoic Acid(PFOA)	CEN/TS 15968:2010	LC-MS
Perfluorooctane Sulfonates(PFOS)	CEN/TS 15968:2010	LC-MS

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Test Result(s)

Tested Item(s)	Result	MOV
	001	MDL
Lead (Pb)	28 mg/kg	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. ▼	0.10 μg/cm ² (LOQ)
Tested Item(s)	Result	MDL
	001	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	25 mg/kg
Dibromobiphenyl	N.D.	25 mg/kg
Tribromobiphenyl	N.D.	25 mg/kg
Tetrabromobiphenyl	N.D.	25 mg/kg
Pentabromobiphenyl	N.D.	25 mg/kg
Hexabromobiphenyl	N.D.	25 mg/kg
Heptabromobiphenyl	N.D.	25 mg/kg
Octabromobiphenyl	N.D.	25 mg/kg
Nonabromobiphenyl	N.D.	25 mg/kg
Decabromobiphenyl	N.D.	25 mg/kg
T (11(()	Result	MDL
Tested Item(s)	001	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	25 mg/kg
Dibromodiphenyl ether	N.D.	25 mg/kg
Tribromodiphenyl ether	N.D.	25 mg/kg
Tetrabromodiphenyl ether	N.D.	25 mg/kg
Pentabromodiphenyl ether	N.D.	25 mg/kg
Hexabromodiphenyl ether	N.D.	25 mg/kg
Heptabromodiphenyl ether	N.D.	25 mg/kg
Octabromodiphenyl ether	N.D.	25 mg/kg
Nonabromodiphenyl ether	N.D.	25 mg/kg
Decabromodiphenyl ether	N.D.	25 mg/kg



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Test Result(s)

Tested Item(s)	Result	MDL
reside rein(s)	001	MIDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result 001	MDL
Argania (Ag)	N.D.	10 mg/kg
Arsenic (As) Beryllium (Be)	N.D.	10 mg/kg
Antimony (Sb)	N.D.	10 mg/kg
Antimony (50)		10 mg/kg
Tested Item(s)	Result 001	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 μg/cm ²
	Result	
Tested Item(s)	001	MDL
Polychlorinated Biphenyls(PCBs)		<u>, </u>
Monochlorobiphenyl	N.D.	5 mg/kg
Dichlorobiphenyl	N.D.	5 mg/kg
Trichlorobiphenyl	N.D.	5 mg/kg
Tetrachlorobiphenyl	N.D.	5 mg/kg
Pentachlorobiphenyl	N.D.	5 mg/kg
Hexachlorobiphenyl	N.D.	5 mg/kg
Heptachlorobiphenyl	N.D.	5 mg/kg
Octachlorobiphenyl	N.D.	5 mg/kg
Nonachlorobiphenyl	N.D.	5 mg/kg
Decachlorobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
rested rem(s)	001	MIDL
Perfluorooctanoic Acid (PFOA)	N.D.	$0.5 \ \mu g/m^2$



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Test Result(s)

Tested Item(s)	Result	MDL
	001	
Perfluorooctane Sulfonates (PFOS)	N.D.	0.5 μg/m ²

Sample/Part Description

No. CTI Sample ID Description
1 001 Silvery plating

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

Beryllium, Antimony.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL or LOQ)

-mg/kg = ppm = parts per million

-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 $\mu g/cm^2$. 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.

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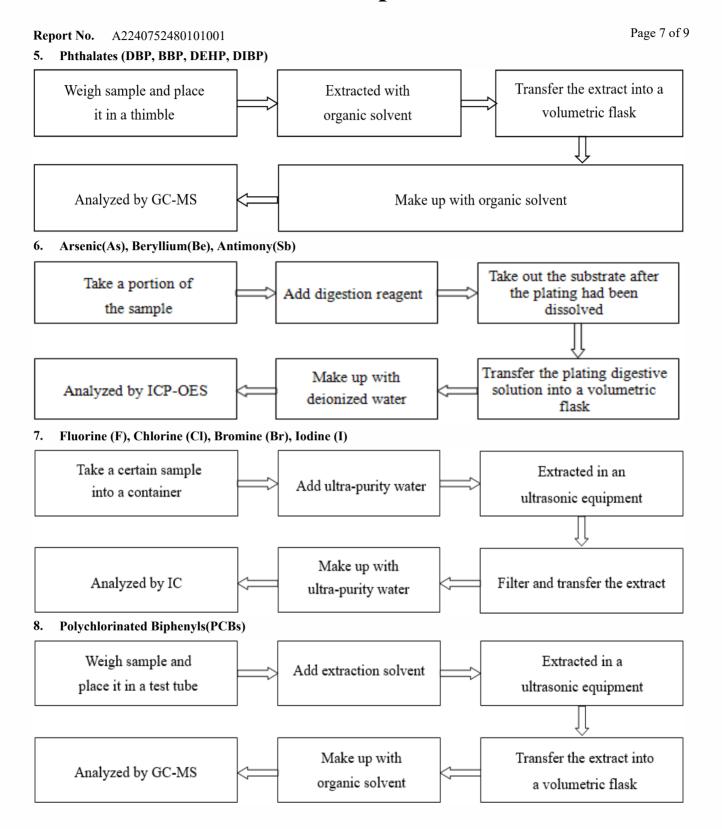
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1 The Both CO. (1)

Test Process Lead (Pb), Cadmium (Cd) Take out the substrate after the Take a portion of Add digestion reagent plating had been dissolved the sample Make up with Transfer the plating digestive Analyzed by ICP-OES deionized water solution into a volumetric flask Mercury (Hg) Take out the substrate after Take a portion of A dd digestion reagent the plating had been the sample dissolved Transfer the plating Make up with di gestive solution into a Analyzed by ICP-OES deionized water volumetric flask Hexavalent Chromium (Cr(VI)) Extraction with boiling water Take a portion of Filter and remove (The ratio of sample area to boiling the sample water volume is 1 cm2 to 1 mL) the sample Adjust the pH value Analyzed by UV-Vis Add test solution of the solution Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs) Transfer the extract into a Weigh sample and place Extracted with it in a thimble volumetric flask organic solvent Analyzed by GC-MS Make up with organic solvent



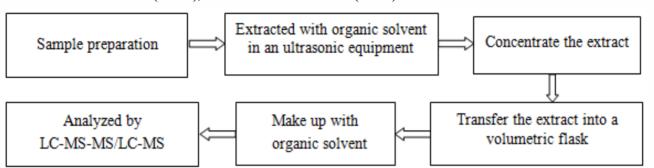




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9. Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)

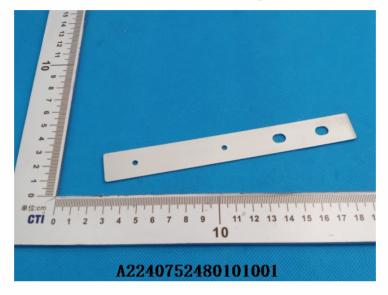




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Photo(s) of the sample(s)



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;
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*** End of report ***