



Test Report

Report No. A2230160846101001

Company Name shown on Report JIANGSU MICRO COMMERCIAL COMPONENTS CO., LTD.

Address NO.68, XINGANQUAN ROAD, HANJIANG DISTRICT, YANGZHOU, CHINA

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

Sample Name BONDING PACKAGE DEVICES
Color Black body
Material BONDING PACKAGE DEVICES
Sample Received Date May 5, 2023
Testing Period May 5, 2023 to May 13, 2023

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 Please refer to the following page(s).

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



Approved by

Chen kaimin
Lab Manager

Date

May 15, 2023

No. R475319778

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

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

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Test Method

Test 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
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
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
	001	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
	001	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 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
	001	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 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	MDL
	001	
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

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Black body (Tested as a whole)

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)
- mg/kg = ppm = parts per million

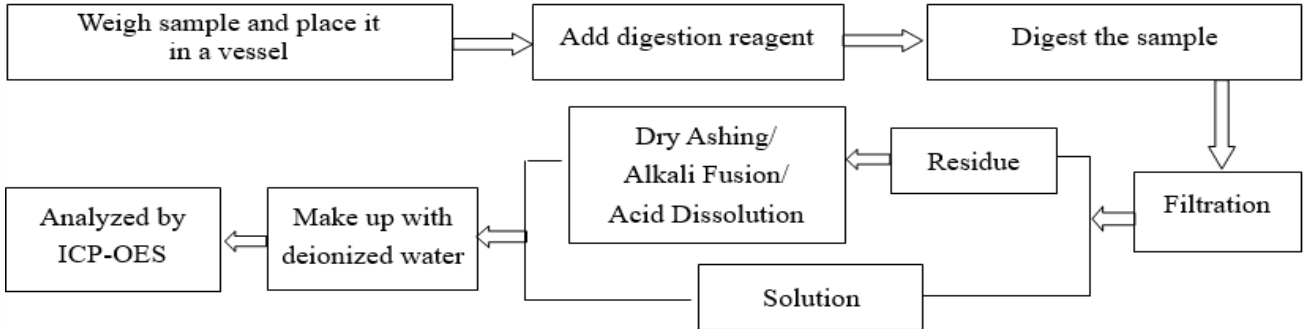
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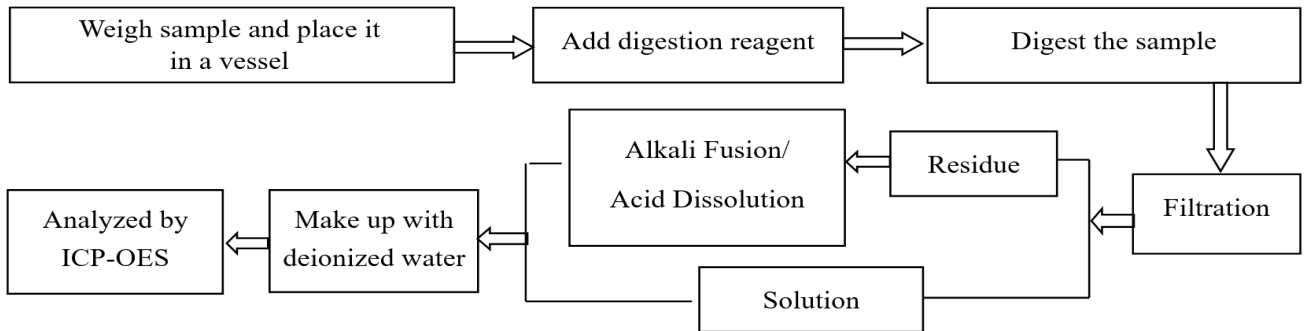
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Test Process

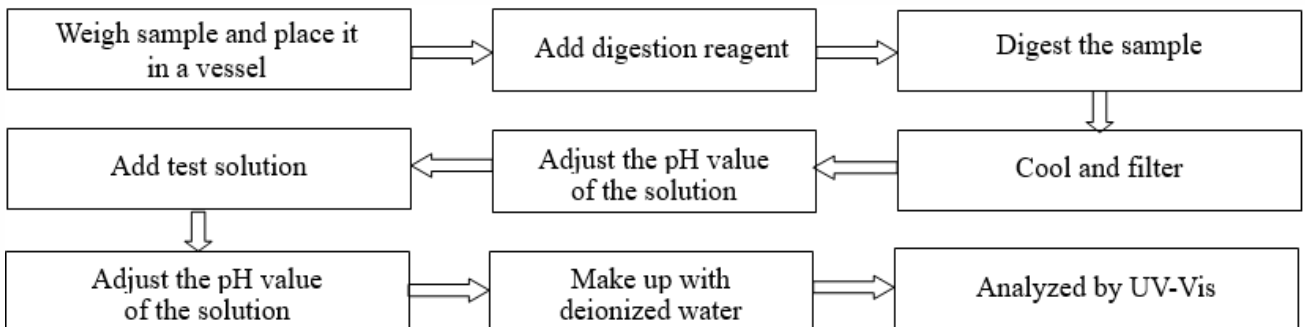
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



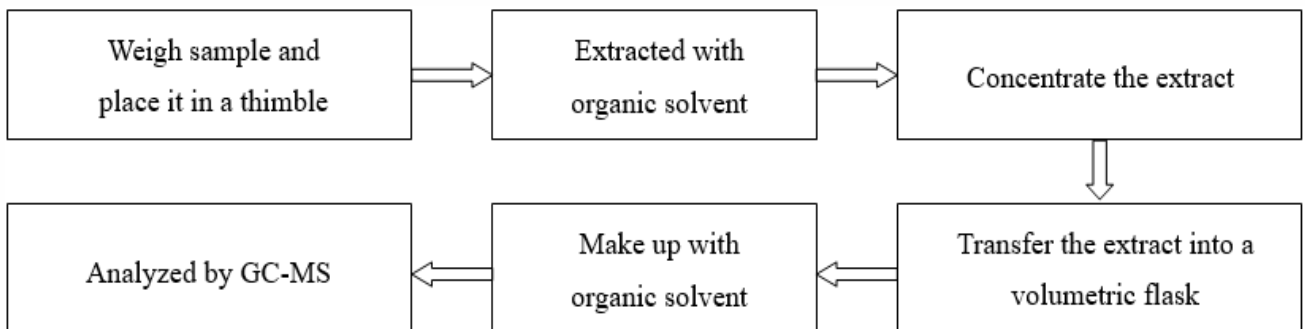
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



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

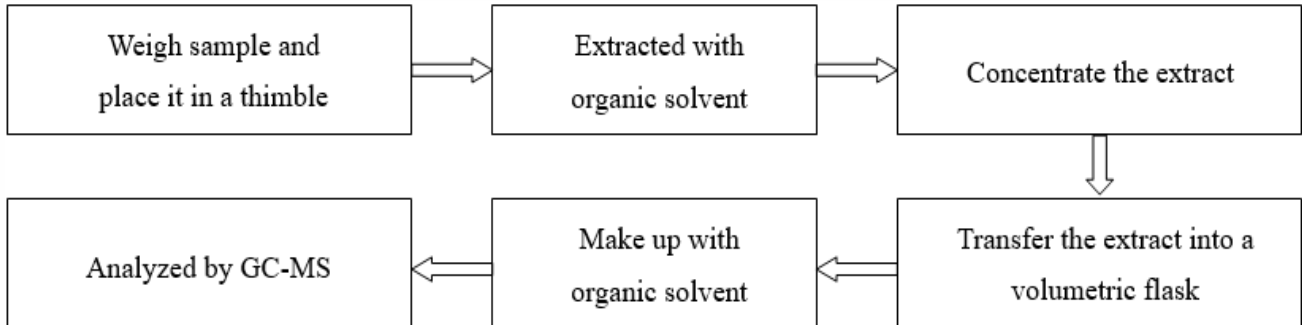


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5. Phthalates (DBP, BBP, DEHP, DIBP)

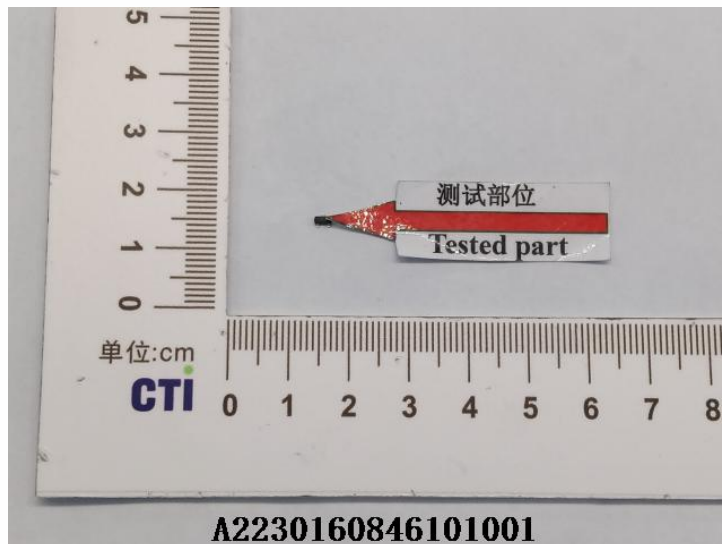


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Photo(s) of the sample(s)



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. Without written approval of CTI, this report can't be reproduced except in full;
5. 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 ***

Appendix

Client Reference Information

0201,0201-A,CSP0201,CSP1006-2,DFN-10,DFN1006-2,DFN1006-2L,DFN1006-3,DFN1006-3A,DFN1308-5,DFN1510-6,DFN1608-2,DFN1610-2,DFN1610-6,DFN1616-6,DFN1616-6L,DFN2020-3A,DFN2020-3L,DFN2020-6G,DFN2020-6J,DFN2020-6JA,DFN2020-6L,DFN2020-6LE,DFN2030-6,DFN2030-6L,DFN2626-10,DFN3030,DFN3030-4L,DFN3030-8,DFN3333,DFN3333-8,DFN3333-D,DFN4120-10,DFN5060,DFN5060-8D,DFN5060-8L,DFN8080A,SOD-123,SOD-323,SOD-323FL,SOD-523,SOD-723,SOD-923,SOP-8,SOT-143,SOT-223,SOT-23,SOT-23-3L,SOT23-5L,SOT23-6L,SOT-323,SOT-353,SOT-363,SOT-523,SOT-563,SOT-723,SOT-89,TSSOP-8,0402,0603,SOT-553,DFN1210-6,SOT-883,DFN3810-9,DFN2510-10,DFN3020-10,DFN0808-4,DFN1608-2L,DFN2020-6LA,DFN8080,SOT-343,SOT23-3L,FBP,WFBP,SO-8,CSP,QFN,DFN,1206,2510,TO-92,TO-92S,TO-92L,TO-92MOD,MSOP-10,SOD-323F,0201-B,SOD-882E,0201-C,DFN1006-2A,DFN1006-2B,DFN1006-2C,DFN1616-6U,DFN2020-3,DFN5060-8,FBP-02L,DFN2020-6U,MFN-9-1,SOD-882

Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2230160846101001.