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Company Name

ZHEJIANG RECTRON ELECTRONIC CO.,LTD.

shown on Report

Address 28# LIZHENG ROAD, HUIMIN DISTRICT, JIASHAN COUNTY, JIAXING

CITY,ZHEJIANG PROVINCE, CHINA/111# CHENGGONG ROAD, HUIMIN DISTRICT,JIASHAN COUNTY, JIAXING CITY,ZHEJIANG PROVINCE, CHINA

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

Sample Name None HF Molding

Material Epoxy

Sample Received Date Jun. 11, 2024

Testing Period Jun. 11, 2024 to Jun. 18, 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), Antimony(Sb), Fluorine (F),

Chlorine (Cl), Bromine (Br), Phthalates, Asbestos in the submitted sample(s).

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

Chen Kaimin Approved Signatory

Approved Signatory

No. R748861269

Jason Zhang

Centre Testing International Pinbiao (Shanghai) Co., Ltd. No.1351, Wanfang Road, Minhang District, Shanghai, China



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est 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	
Hayayalant Chuamiyun (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
Hexavalent Chromium (Cr(VI))	Total Chromium by IEC 62321-5:2013	U V- 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	
Antimony(Sb)	Refer to US EPA 3052:1996 & US EPA	ICP-OES	
Antiniony (50)	6010D:2018*	ICI -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	
Phthalates(BBP,DMEP,DEHP,DBP,DNHP/DHEXP,	Refer to EN 14372:2004(E)*	GC-MS	
DPP/DPENP,DIBP,DIDP,DINP,DIPP,DNOP,NIPP)	Refer to EN 14372.2004(E)**	GC-IVIS	
Ashestos	ISO 22262-1:2012+NIOSH 9000:2015+NIOSH	PLM+XRD	
Asuestos	9002:1994	FLWI+ARD	

Test Result(s)

Tested Item(s)	Result	MDL
rested tem(s)	009	1411012
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

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Tested Item(s)	Result	MDL
	009	MIDL
Polybrominated Biphenyls (PBB	s)	
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
	009	- MIDL
Polybrominated Diphenyl Ether	s (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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Tosted Item(s)	Result	MDL
Tested Item(s)	009	WIDL
Phthalates (DBP, BBP, DEHP, DI	BP)	
Dibutyl phthalate (DBP)	N.D.	50 mg/kg
CAS#:84-74-2	N.D.	50 Hig/kg
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg
CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate	MD	50 //
(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP)	N D	50 m ~/lr~
CAS#:84-69-5	N.D.	50 mg/kg

Tested Item(s)	Result	MDL
	009	1411713
Antimony (Sb)	5278 mg/kg	10 mg/kg

Tested Item(s)	Result	MDL
rested Item(s)	009	1411012
Fluorine (F)	N.D.	10 mg/kg
Chlorine (Cl)	127 mg/kg	10 mg/kg
Bromine (Br)	7124 mg/kg	10 mg/kg

Tested Item(s)	Result	MDL
	009	WIDL
Phthalates		
Dibutyl phthalate (DBP)	N.D.	50 mg/kg
CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg
CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg
(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Di-n-octyl phthalate (DNOP)	N.D.	50 mg/lrg
CAS#:117-84-0	N.D.	50 mg/kg
Di-isononyl phthalate (DINP)	N.D.	50 mg/kg
CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg



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Tested Item(s)	Result	MDL
	009	WIDL
Phthalates		
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	50 mg/kg
Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	50 mg/kg
Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	50 mg/kg
Diisopentylphthalate (DIPP) CAS#:605-50-5	N.D.	50 mg/kg
N-Pentyl-isopentyl phthalate (NIPP) CAS#:776297-69-9	N.D.	100 mg/kg

Matarial Catagory	C-h-t	Results
Material Category	Substances/CAS Numbers	009
	Chrysotile/12001-29-5	N.A.D.
	Crocidolite/12001-28-4	N.A.D.
Asbestos (CAS 1332-21-4)	Amosite /12172-73-5	N.A.D.
	Tremolite Asbestos/ 77536-68-6	N.A.D.
	Actinolite Asbestos /77536-66-4	N.A.D.
	Anthophyllite Asbestos/77536-67-5	N.A.D.

Sample/Part Description

No. CTI Sample ID Description
1 009 Dark grey solid

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-N.A.D.= No Asbestos Detected(<Limit of detection)

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



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Explanation (Asbestos)

- -The limit of detection of this method is defined as the detection and identification of one fibre or fibre bundle in the amount of sample examined. With appropriate matrix reduction procedures that are tailored to the nature of the sample, the limit of detection can be significantly lower than 0.1%.
- -The estimated concentration(s) of the asbestos varieties detected in ranges is/are as follows: Trace (<0.1%), 0.1%-5%, 5%-50%, and 50%-100%.
- -Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarized light microscopy. These materials often contain milled asbestos with too small fibre diameter and length to be detected.
- -X-ray diffraction analysis cannot discriminate the particle shape in analytical sample and detects not only asbestos of fibrous form but also non-fibrous minerals related to asbestos such as serpentine minerals and/or amphibole minerals if they coexist.
- -CTI Asbestos Testing Center has established strict quality assurance and supervision procedures in accordance with international standard. And the laboratory participates in the AIMS* every year (three times per year) to confirm our proficiency.
- *The Asbestos in Materials Scheme (AIMS) is an international inter-laboratory testing scheme, and it is managed by the Health and Safety Laboratory (HSL) which on behalf of the Health and Safety Executive (HSE) of UK.

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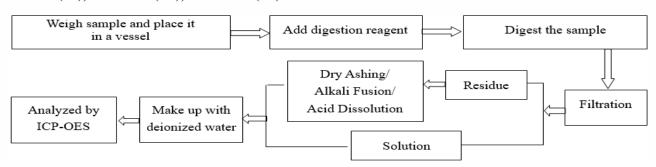


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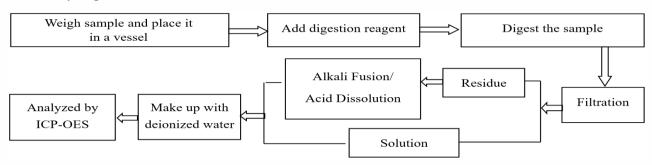
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Test Process

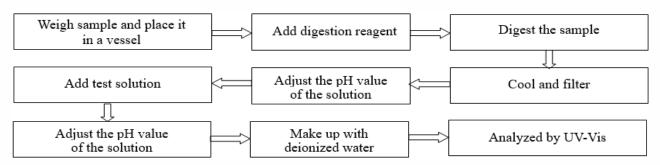
1. Lead (Pb), Cadmium (Cd), Chromium(Cr)



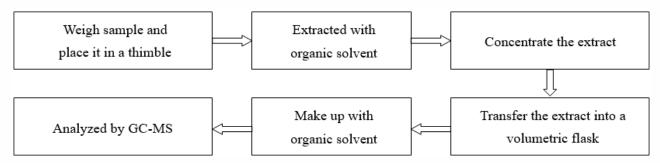
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



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

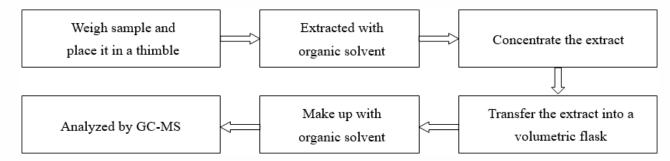




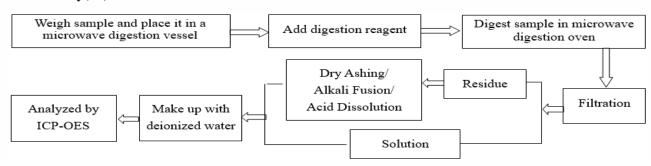
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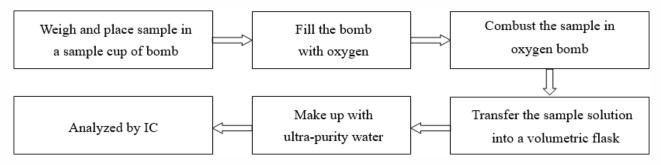
5. Phthalates



6. Antimony(Sb)

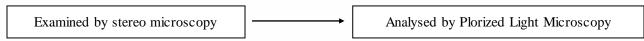


7. Fluorine (F), Chlorine (Cl), Bromine (Br)

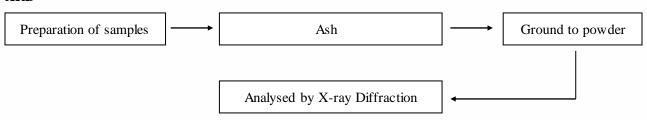


8. Asbestos

PLM



XRD





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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;
- 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 ***



Appendix

Client Reference Information

0402/0603/1.5KE/A405/AKM/BDB/BR-10/BR-15W/BR-3/BR-6/BR-8/BKM/CSP/D2PAK/D3K/DB/BDB/DB LS/DBS/DFN5x6EP/DFN0603/DFN0603-2L/DFN1006/DFN1006-2/2L/DFN1006-3/3L/DFN1610/DFN2.6*2.6 -10L/DFN2×2-3L/DFN2510/DFN2X2-6L/DFN3.3X3.3/DFN3x3/DFN4120-10L/DFN5x6/DFN5X6-8L/DFNW B0.6*0.3/DI5/DO15/DO201AD/DO-213AB/DO218/DO218AB/DO277/DO34/DO35/DO41/DO41G/DPAK/ES OP-8/HR-MS/HVM/HVML/HVP/ITO220/ITO220A/ITO220AC/KBL/KBP/KBPG/LL34/LL41/LMDS/MB-F/ MBM/MDA/MDC/MDF/MDK/MDS/MDSJ/MELF/MICRO-MELF/MINI-MELF/MP-15/MP-15W/MP-25/ MP-25W/MP-35/MP-35W/MP-40/MP-50/MP-50W/MSBM/MSBS/MSOP10/MT-35/MT-35W/ PDFN5X6P/PPAK3x3/PPAK5X6/PQFN2X2/PDFN2X2/R1/R10000H/R12000H/R10KH/R12KH/ R16KH/R2/R3/R30KH/R4/R5/R6/R7/R8KH/R9KH/RB-15/RBU/RBUH/RC-2/RS1/RS1L/ RS10M/RS10MLS/RS15M/RS15MLS/RS1M/RS2/RS20M/RS20MLS/RS25M/RS25 MLS/RS2L/RS2M/ RS30M/RS35M/RS35TB/RS40M/RS485/RS4L/RS4M/RS50M/RS6/RS6L/RS60M/RS6M/ RS-6MLS/RS8/RS8L/RS8M/S35VB/S50VB/SBR/SC-75/SOT416/SKBPC/SLDBS/SlimPAO/SlimPAO-1/SLM DS/SLPDS/SMA (DO214AC) /SMAF/SMA-S/SMB (DO214AA) /SMBF/SMB-F/SMC (DO214AB) / SMX/SOD123/SOD123F/SOD123F(L)/SOD123F(L)-1/SOD123FH/SOD123FL/SOD123S/SOD123ST/SOD12 3FL-1/SOD323/SOD323F/SOD523/SOD523F/SOD723/SOD80C/SOD882/SOD923/SOF2-4/SOP-8L/SOP-14/ SOP-8/SOT89/SOT143/SOT223/SOT223-2L/3L/SOT227/SOT23/SOT23-3L/SOT23-3S/SOT23-5/SOT236/ SOT23-6/6L/SOT26/SOT323/SOT323FL/SC70/SOT346/SOT353/SOT363/SOT363-6L/SOT523/SOT563/ SOT723/SOT883/SOT89/SOT89-3L/SSOD923/SSOT-6L/Sub-SMA/TO126/TO263/TO220/TO220-3L/ TO220A/TO220A-1/TO220AB/TO220AC/TO220C/TO220F/TO220FAC/TO247/TO247-3L/TO247S/TO251/ TO252/TO252-5L/TO3P/TO92/TO92L/TO92S/TOLL9/TOFN16/TSOT23-5/TDFN2x2-6L/TSOT23-6L/ TSSOP14/TSSOP-8/TO126/TO126F/TO262/TO252-4L/TO-3P/UDFN-3L/WBFBP-02C/WOM/WLCSP-10L/ X3DFN2/ULBF

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 A2240315771101009.