

Test Report	Report No.:	220713105GZU-065	Date: Aug 12, 2022		
Applicant:	AILUN ELECTRONIC TECHNOLOGY (H.K) LIMITED				
	Room 01, 21/F Prosper Comme Street, Kowloom, H.K	rcial Building 9 Yin Chong			
Sample Description: The following submitted sample(s) said to be:					
the blowing submitted sample(s) said to Chin Projector					

Item Name	:	Chip Resistor
Model No.	:	NA
Date of Sample Received	:	Jul 15, 2022 & Aug 5, 2022
Testing Period	:	Jul 15, 2022 to Aug 1, 2022 & Aug 5, 2022 to Aug 11, 2022

Tests conducted:

As requested by the applicant, refer to following page(s) for details.

Conclusion:

Tested Sample	Standard	Result
Tested components of submitted sample	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and (EU) 2015/863)	Pass

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch: Prepared by:

Leo Yao

Leo Yao Project Engineer



Reviewed by:

schashow

Silva Zhou Asst. Manager



Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, 1-8F.& Room 01,101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China. Tel: (86-20) 8213 9688 Fax: (86-20) 32057538 Website: <u>www.intertek.com</u>



Report No.: 220713105GZU-065

Date: Aug 12, 2022

Tests conducted:

RoHS Chemical Test

(A) Test Result Summary:

Test Item	Result (mg/kg)
	(1)
Cadmium (Cd) Content	ND
Lead (Pb) Content	324
Mercury (Hg) Content	ND
Chromium (VI)(Cr ⁶⁺) Content	ND
Sum of Polybrominated Biphenyls (PBBs)	ND
Monobromobiphenyl (MonoBB)	ND
Dibromobiphenyl (DiBB)	ND
Tribromobiphenyl (TriBB)	ND
Tetrabromobiphenyl (TetraBB)	ND
Pentabromobiphenyl (PentaBB)	ND
Hexabromobiphenyl (HexaBB)	ND
Heptabromobiphenyl (HeptaBB)	ND
Octabromobiphenyl (OctaBB)	ND
Nonabromobiphenyl (NonaBB)	ND
Decabromobiphenyl (DecaBB)	ND
Sum of Polybrominated Diphenyl Ethers (PBDEs)	ND
Monobromodiphenyl Ether (MonoBDE)	ND
Dibromodiphenyl Ether (DiBDE)	ND
Tribromodiphenyl Ether (TriBDE)	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND
Pentabromodiphenyl Ether (PentaBDE)	ND
Hexabromodiphenyl Ether (HexaBDE)	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND
Octabromodiphenyl Ether (OctaBDE)	ND
Nonabromodiphenyl Ether (NonaBDE)	ND
Decabromodiphenyl Ether (DecaBDE)	ND
Phthalates	
Bis(2-ethylhexyl) phthalate (DEHP)	ND
Butyl benzyl phthalate (BBP)	ND
Dibutyl phthalate (DBP)	ND
Diisobutyl phthalate (DIBP)	ND





Date: Aug 12, 2022

Tested sample:

(1) White ceramic with black material & white printing & silvery metal (SMD resistor) (26)

ND = Not detected

mg/kg = milligram per kilogram

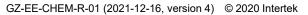
(B) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Phthalates (DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(C) Test Method:

Test Item	Test Method	Detection Limit
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and determined by ICP - OES	2 mg/kg
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321-7-2 Edition 1.0: 2017, Hexavalent chromium – Determination of hexavalent chromium (Cr (VI) in polymers and electronics by the colorimetric method	10 mg/kg
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs) Content	With reference to IEC 62321-6 Edition 1.0: 2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Phthalates (DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0: 2017, by solvent extraction and determined by GC/MS	100 mg/kg



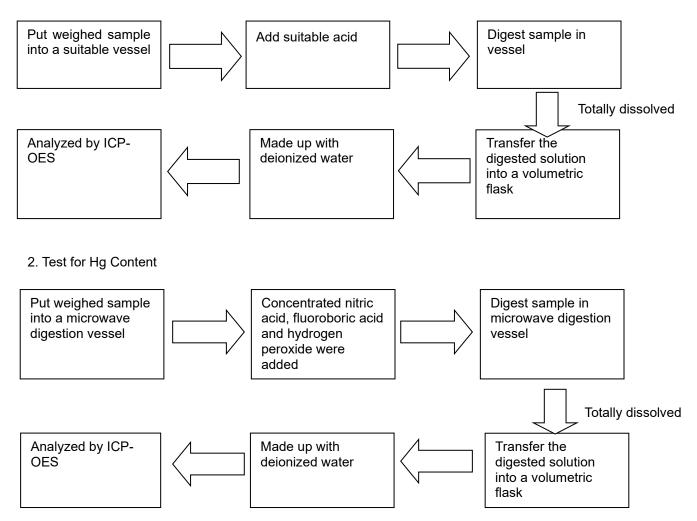
Page 3 of 8



Report No.: 220713105GZU-065

Date: Aug 12, 2022

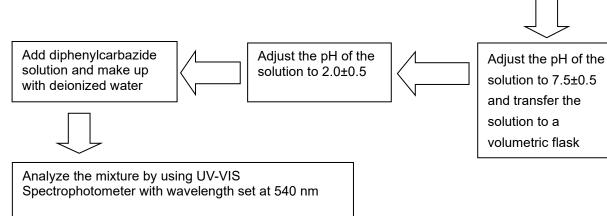
- (D) Measurement Flowchart:
- 1. Test for Cd/Pb Contents



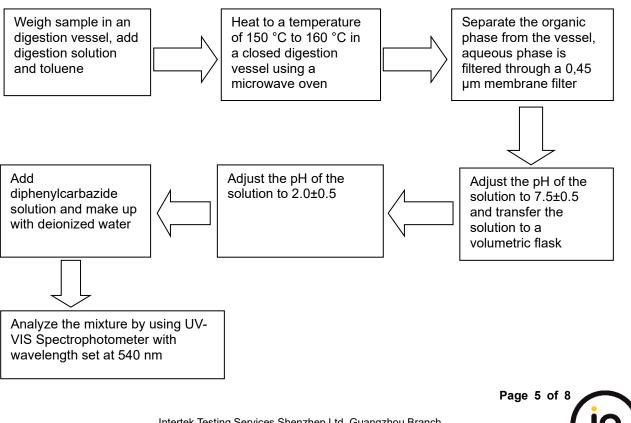
Page 4 of 8



Report No.: 220713105GZU-065 Date: Aug 12, 2022 Test Report 3. Test for Chromium (VI) (Cr6+) Content Soluble polymers: Weigh sample in an Add digestion Dissolve each digestion vessel, polymer sample by solution and add NMP ultrasonication at Ultrasonicate the solution at 60 °C for 60 °C 1 h



Insoluble/unknown polymers and electronics without Sb:



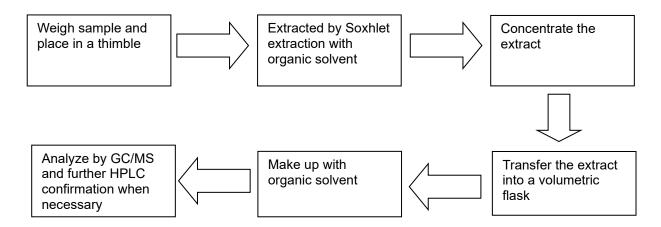
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, 1-8F.& Room 01,101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China. Tel: (86-20) 8213 9688 Fax: (86-20) 32057538 Website: <u>www.intertek.com</u>



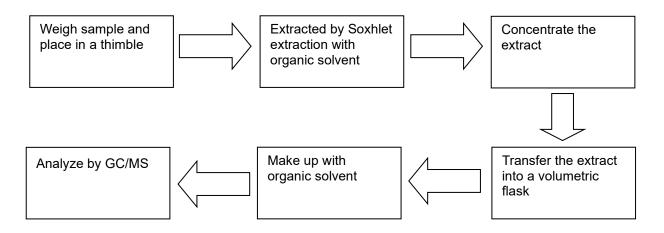


Date: Aug 12, 2022

4. Test for PBBs/PBDEs Contents



5. Test for Phthalate Contents







Report No.: 220713105GZU-065

Sample photo



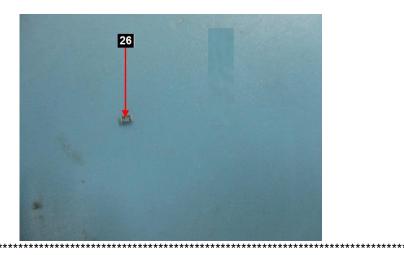
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, 1-8F.& Room 01,101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China. Tel: (86-20) 8213 9688 Fax: (86-20) 32057538 Website: www.intertek.com

Page 7 of 8



Report No.: 220713105GZU-065

Date: Aug 12, 2022



_ . . .

End of report

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

