

Applicant: AILUN ELECTRONIC TECHNOLOPY (H.K) LIMITED

Flat/RM 01 21/F Prosper Commercial Building 9 Yin

Chong Street

Sample Description:

The following submitted sample(s) said to be:

Item Name : Melf Resistor

Model No. : NA

Date of Sample Received : Aug 26, 2020

Testing Period : Aug 26, 2020 to Sep 11, 2020

Tests conducted:

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

Conclusion:

Tested Sample	Standard	Result
Tested component 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:

Martin He

Senior Project Engineer

Reviewed by:

Michael Pang

Assistant Technical Supervisor



Tests conducted:

RoHS Chemical Test

(A) Test Result Summary:

Cadmium (Cd) Content ND Lead (Pb) Content ND Mercury (Hg) Content ND Chromium (VI)(Cr6+) Content ND Sum of Polybrominated Biphenyls (PBBs) ND Monobromobiphenyl (MonoBB) ND Dibromobiphenyl (TiBB) ND Tribromobiphenyl (TriBB) ND Tetrabromobiphenyl (PentaBB) ND Pentabromobiphenyl (HexaBB) ND Hexabromobiphenyl (HexaBB) ND Cotabromobiphenyl (HexaBB) ND Octabromobiphenyl (HonaBB) ND Decabromobiphenyl (NonaBB) ND Decabromobiphenyl (NonaBB) ND Decabromobiphenyl (DecaBB) ND Deromodiphenyl Ether (MonoBDE) ND Dibromodiphenyl Ether (NonBDE) ND Dibromodiphenyl Ether (TriBDE) ND Tetrabromodiphenyl Ether (TriBDE) ND Tetrabromodiphenyl Ether (TetraBDE) ND Pentabromodiphenyl Ether (HexaBDE) ND Decabromodiphenyl Ether (HexaBDE) ND Decabromodiphenyl Ether (HexaBDE) ND Decabromodiphenyl Ether (HexaBDE) ND Decabromodiphenyl Ether (HeptaBDE) ND Decabromodiphenyl Ether (HeptaBDE) ND ND ND Decabromodiphenyl Ether (NonaBDE) ND Dibtyl phthalate (DBP) ND Dibtyl phthalate (DBP) ND	Test Item	Result (mg/kg)	
Lead (Pb) Content Mercury (Hg) Content Chromium (VI)(Cr6+) Content Sum of Polybrominated Biphenyls (PBBs) Monobromobiphenyl (MonoBB) Dibromobiphenyl (DiBB) Tribromobiphenyl (TriBB) ND Tetrabromobiphenyl (TetraBB) Pentabromobiphenyl (PentaBB) ND Hexabromobiphenyl (HexaBB) Heptabromobiphenyl (HexaBB) ND Octabromobiphenyl (NonaBB) ND Octabromobiphenyl (NonaBB) Decabromobiphenyl (NonaBB) ND Decabromobiphenyl (DecaBB) Sum of Polybrominated Diphenyl Ethers (PBDEs) Monobromodiphenyl Ether (MonoBDE) Dibromodiphenyl Ether (TriBDE) Tribromodiphenyl Ether (TriBDE) Pentabromodiphenyl Ether (TetraBDE) Pentabromodiphenyl Ether (PentaBDE) ND Hexabromodiphenyl Ether (PentaBDE) ND Octabromodiphenyl Ether (HexaBDE) ND Decabromodiphenyl Ether (HexaBDE) ND Decabromodiphenyl Ether (OctaBDE) ND Decabromodiphenyl Ether (NonaBDE) ND Decabromodiphenyl Ether (NonaBDE) ND Decabromodiphenyl Ether (NonaBDE) ND Decabromodiphenyl Ether (NonaBDE) ND Decabromodiphenyl Ether (DecaBDE) ND Dibutyl phthalate (DBP) ND	Test item	(1)	
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Phthalates Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) ND	Nonabromodiphenyl Ether (NonaBDE)	ND	
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Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) ND	Phthalates		
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= (= = .)	Butyl benzyl phthalate (BBP)	ND	
Diisobutyl phthalate (DIBP)	Dibutyl phthalate (DBP)	ND	
	Diisobutyl phthalate (DIBP)	ND	

Tested sample:

(1) Silver color body with blue/pink printing (16)





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)

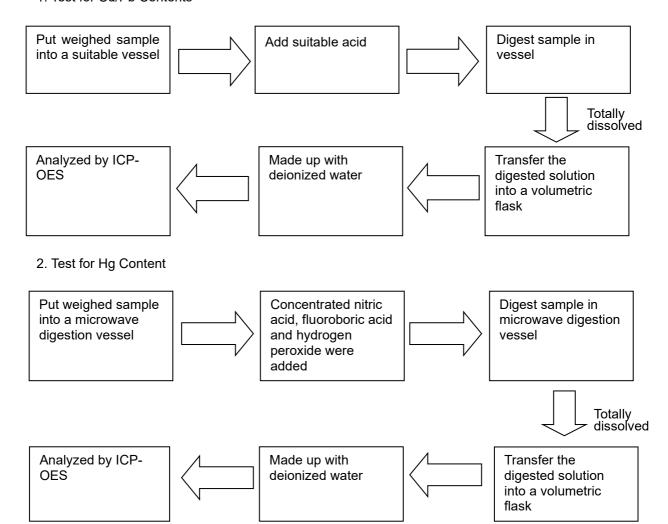
The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(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 Edition 1.1: 2017, 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)	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



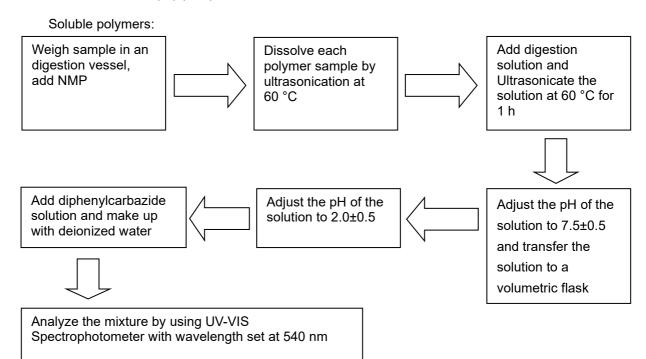
- (D) Measurement Flowchart:
- 1. Test for Cd/Pb Contents



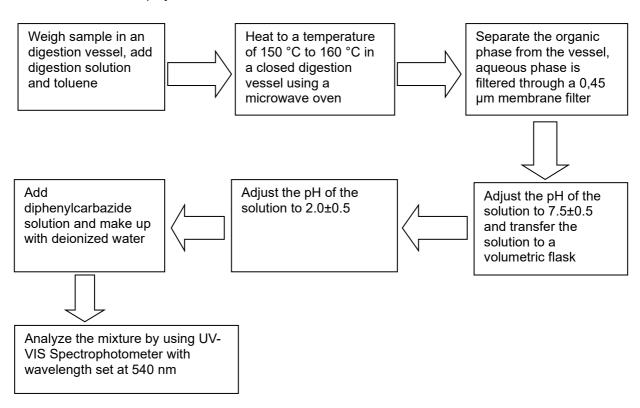


Report No.: 200826041GZU-016 Date: Sep 19, 2020 **Test Report**

3. Test for Chromium (VI) (Cr6+) Content



Insoluble/unknown polymers and electronics without Sb:





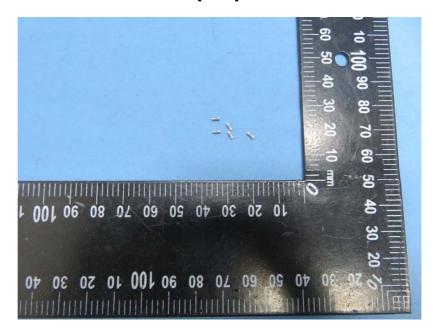
4. Test for PBBs/PBDEs Contents Extracted by Soxhlet Weigh sample and Concentrate the place in a thimble extraction with extract organic solvent Analyze by GC/MS Make up with Transfer the extract and further HPLC organic solvent into a volumetric confirmation when flask necessary 5. Test for Phthalate Contents Weigh sample and Extracted by Soxhlet Concentrate the place in a thimble extraction with extract organic solvent

Make up with Transfer the extract Analyze by GC/MS organic solvent into a volumetric flask



Report No.: 200826041GZU-016 Date: Sep 19, 2020 **Test Report**

Sample photo







End of report

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