

**Test Report**

Number: GZHH00271163

Applicant: ZHEJIANG HOYTECH CO., LTD.  
LIULI INDUSTRIAL PARK, GANPU TOWN,  
HAIYAN COUNTY, JIAXING CITY,  
ZHEJIANG PROVINCE

Date: Feb 09, 2018

Attn: 陈又喜

**Sample Description:**

Two (2) submitted samples said to be **loose lay quick-fit**  
Manufacturer : 浙江禾运科技有限公司  
Date Sample Received : Feb 06, 2018



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**Tests conducted:**

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

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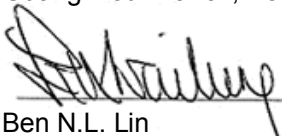
**Conclusion:**

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested component (1) of submitted samples	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU)	See test conducted

Other tested components of submitted samples	-Ditto-	Pass
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Authorized by:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch, Hardlines

  
Ben N.L. Lin  
General Manager



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**Intertek Testing Services Shenzhen Limited, Guangzhou Branch**

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Tests Conducted

1 RoHS Chemical Test

(A) Test Result Summary:

<u>Test item</u>	<u>Result</u> <u>(1)to(3)</u>
Cadmium (Cd) Content (mg/kg)	ND
Lead (Pb) Content (mg/kg)	ND
Mercury (Hg) Content (mg/kg)	ND
Chromium (VI)(Cr <sup>6+</sup> ) Content (mg/kg)	ND
Polybrominated Biphenyls (PBBs)(mg/kg)	
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
Polybrominated Diphenyl Ethers (PBDEs)(mg/kg)	
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

ND = Not detected

Tested Components:

- (1) Transparent/white soft plastic with inaccessible grey coating (surface).
- (2) Deep grey soft plastic (interlayer).
- (3) Black plastic film (base).

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(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 <sup>6+</sup> )	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)

(C) Test Method:

Testing Item	Testing Method	Reporting Limit
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.0:2013+AMD1:2017, by acid digestion and determined by ICP - OES	2 mg/kg
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
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
Chromium (VI)(Cr <sup>6+</sup> ) 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

Date sample received: Feb 06, 2018

Testing period: Feb 06, 2018 to Feb 08, 2018

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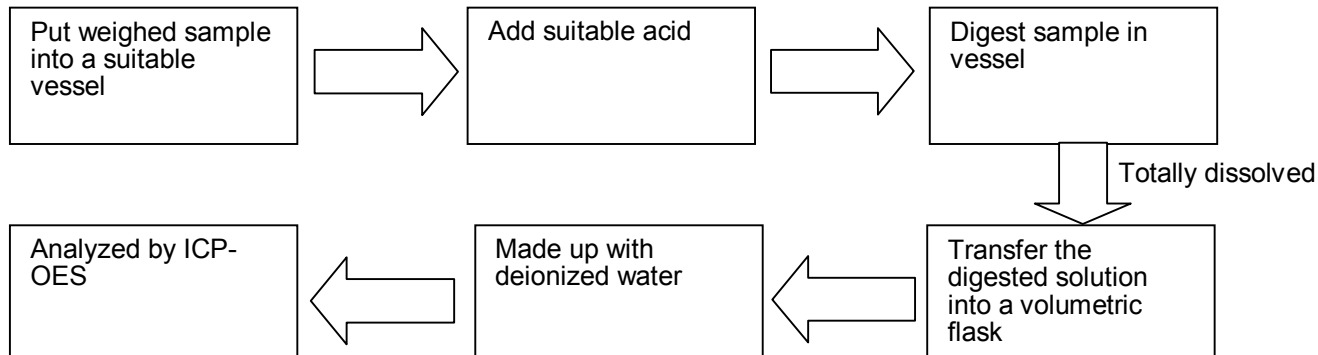
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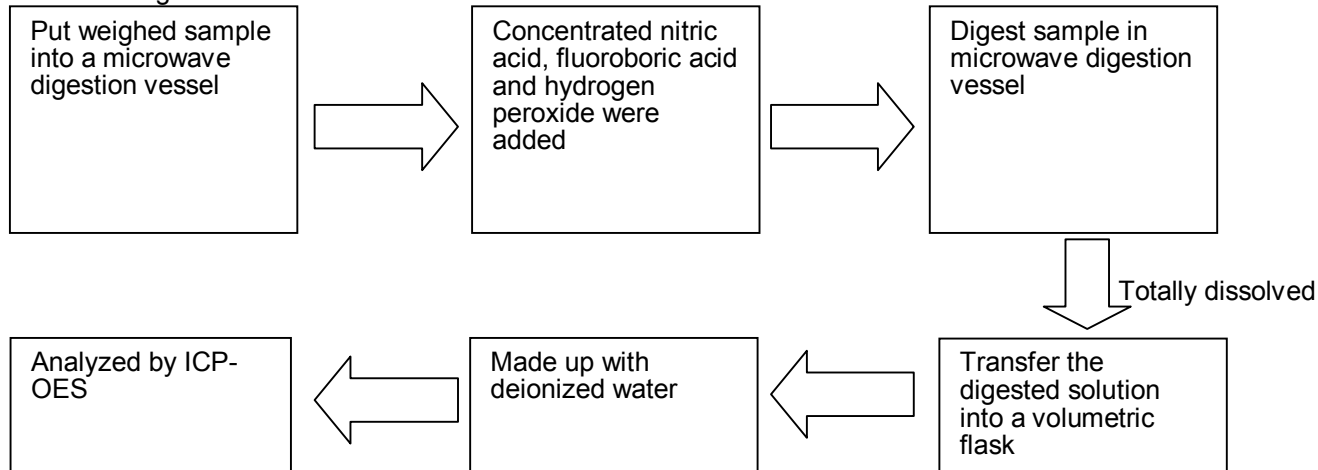
Tests Conducted

(D) Measurement Flowchart:

1. Test for Cd/Pb Contents



2. Test for Hg Content



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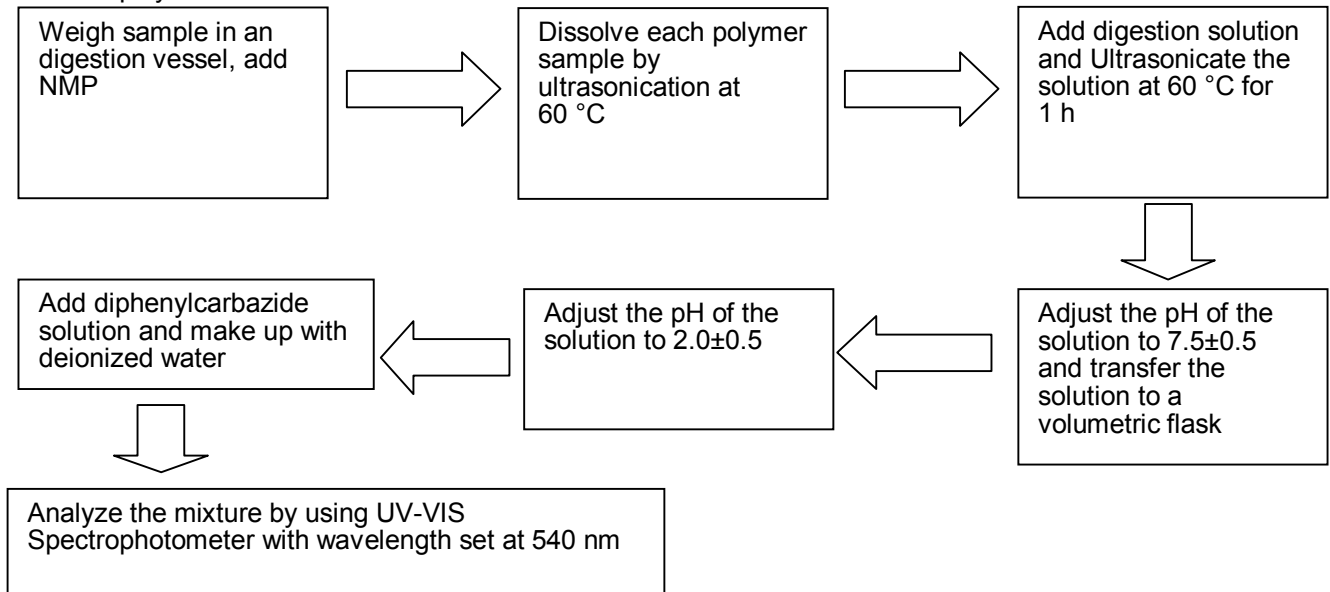


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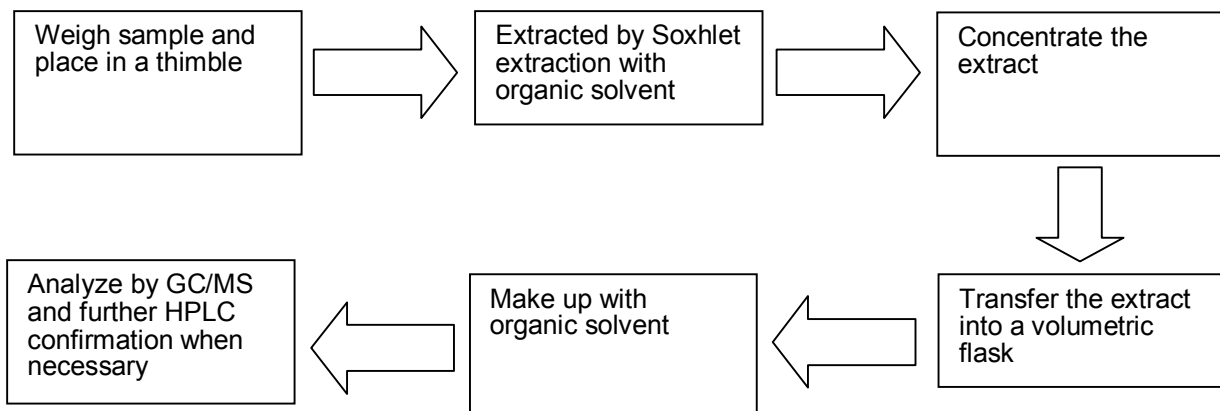
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3. Test for Chromium (VI) ( $\text{Cr}^{6+}$ ) Content  
Soluble polymers



4. Test for PBBs/PBDEs Contents



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End of report

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