

Test Report

Number: SHAH00902013

Applicant: LAMELIO
Decoration panels
various designs

Date: 02 Feb, 2018

Sample Description:

One (1) style of submitted sample said to be :

Item Name : **LAMELIO panel**
Labelled Age Group : Not Specified.
Packaging Provided By Applicant : No.
Country Of Origin : China.

Tests Conducted:

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

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
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
Tested component of submitted sample	Formaldehyde release content	See Test Conducted

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Leo Shi
General Manager



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Tests Conducted

1 RoHS Chemical Test

(A) Test Result Summary:

Testing Item	Result		
	(1)	(2)	(3)
Cadmium (Cd) Content (mg/kg)	ND	ND	ND
Lead (Pb) Content (mg/kg)	ND	ND	ND
Mercury (Hg) Content (mg/kg)	ND	ND	ND
Chromium (VI)(Cr ⁶⁺) Content (mg/kg)	ND	ND	ND
Polybrominated Biphenyls (PBBs) Content (mg/kg)			
Monobromobiphenyl (MonoBB)	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND
Polybrominated Diphenyl Ethers (PBDEs) Content (mg/kg)			
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND
Phthalates Content (mg/kg)			
Bis(2-ethylhexyl)phthalate (DEHP)	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND
Dibutyl phthalate (DBP)	ND	ND	ND
Diisobutyl phthalate (DIBP)	ND	ND	ND

Remark: mg/kg = milligram per kilogram

ND = Not detected

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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 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:

Testing Item	Testing Method	Reporting 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 1.0:2013, by acid digestion and determined by ICP - OES	2 mg/kg
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321 Edition 1.0:2008, by alkaline digestion and determined by UV-VIS Spectrophotometer	1 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 1.0:111/321/CD / EN 14372-2004/CPSC-CH-C1001-09.3, by solvent extraction and determined by GC/MS	100mg/kg

Tested Components: See component list in the last section of this report.

To be continued

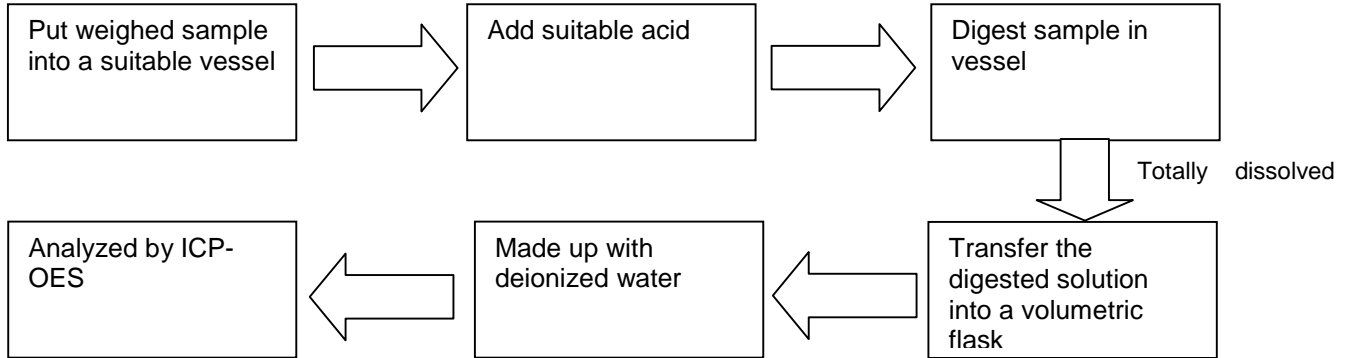
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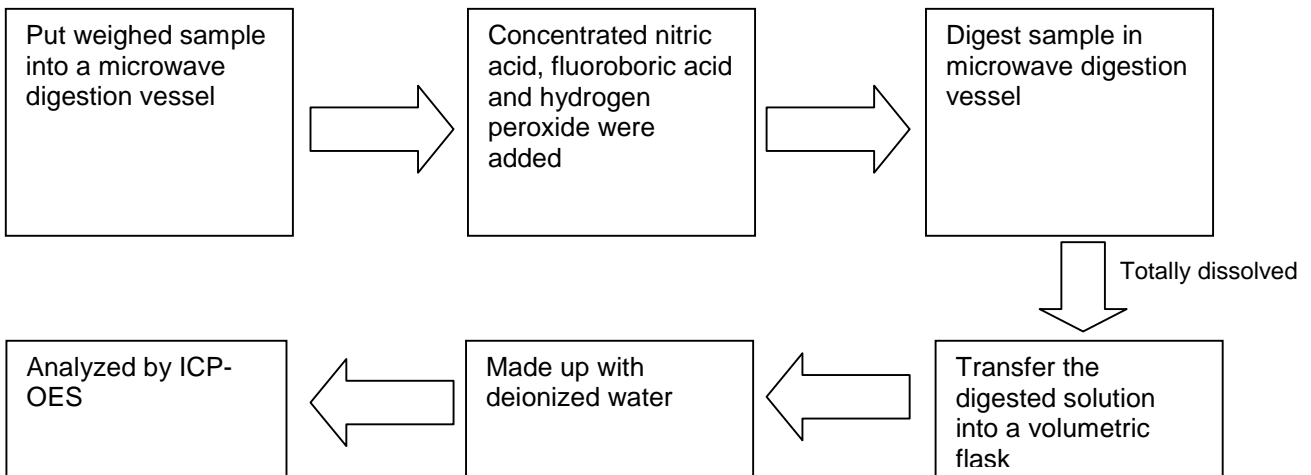
Tests Conducted

(D) Measurement Flowchart:

1. Test for Cd/Pb Contents



2. Test for Hg Content



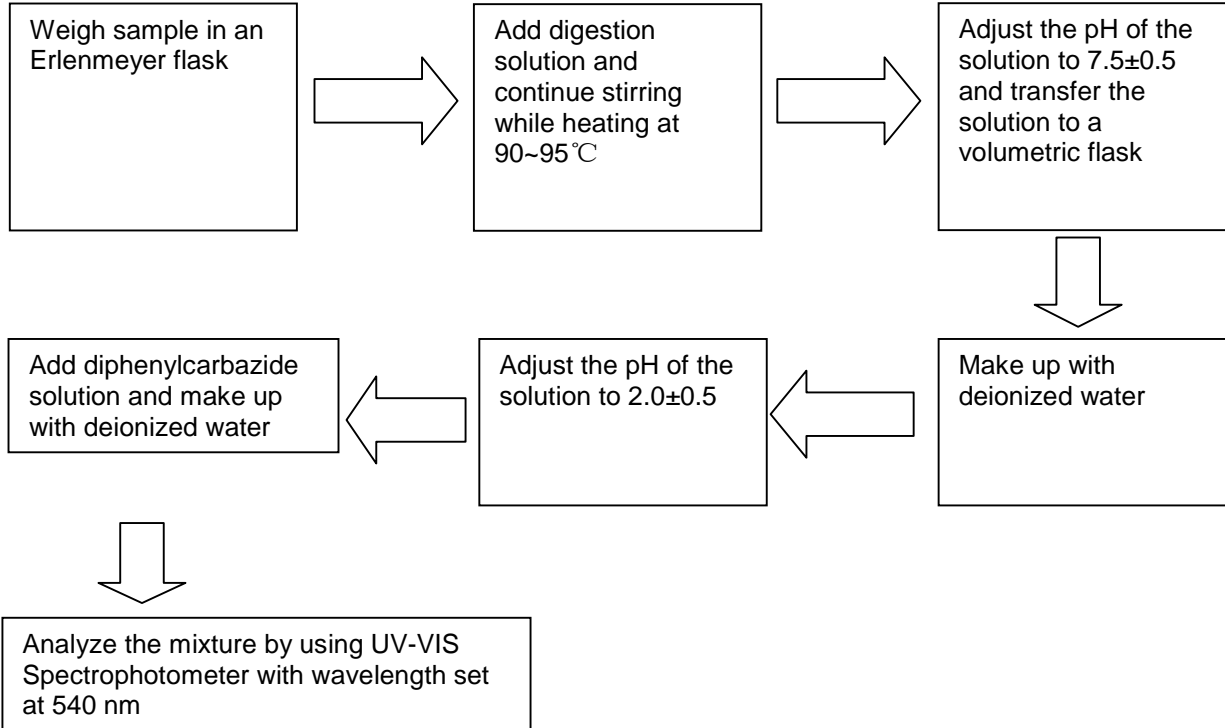
To be continued

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3. Test for Chromium (VI) (Cr^{6+}) Content (Alkaline Digestion)



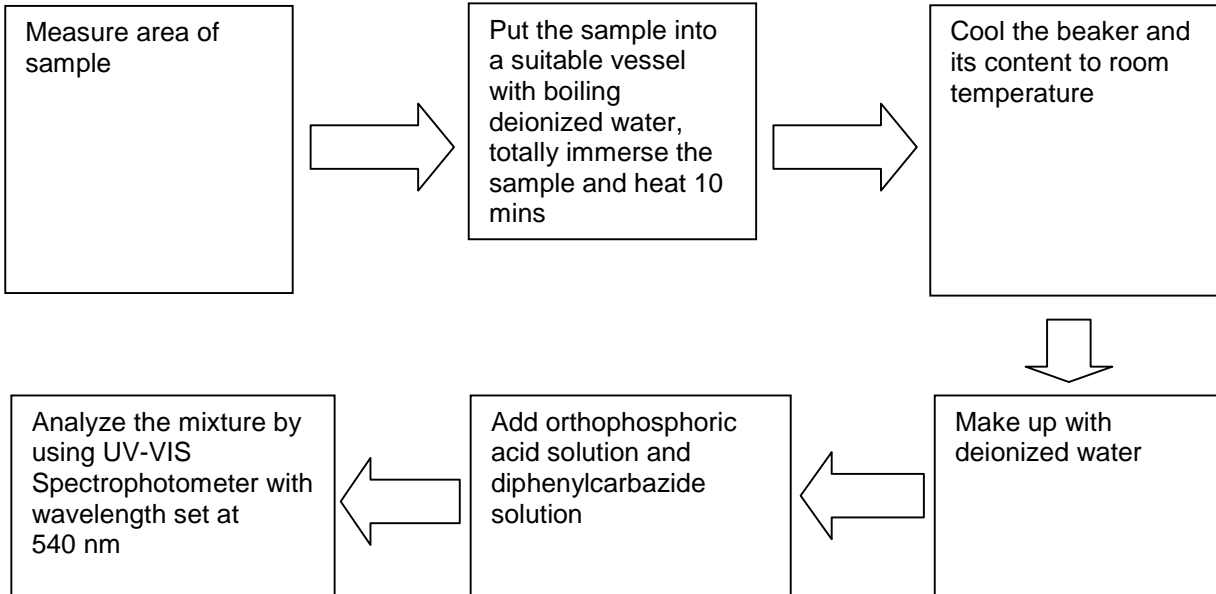
To be continued

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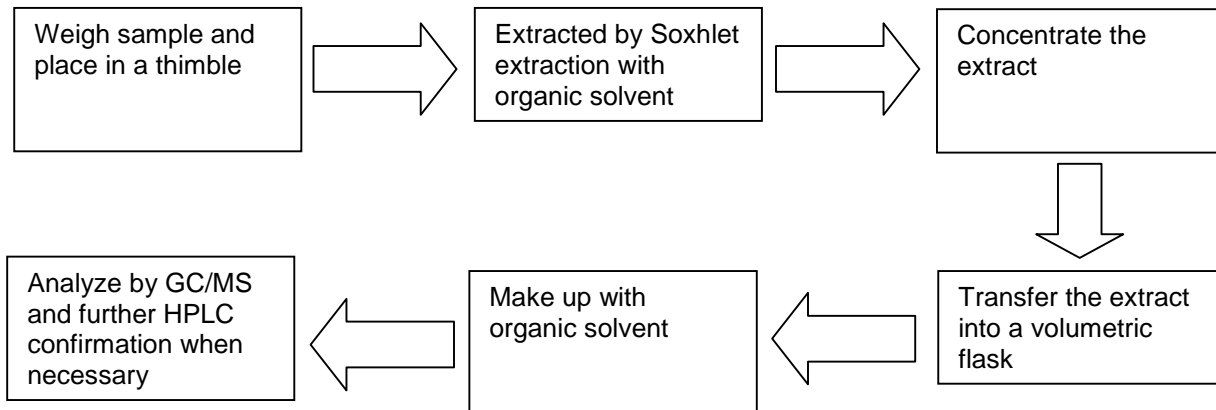
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Tests Conducted

4. Test for Chromium (VI) (Cr⁶⁺) Content (Boiling Water Extraction)



5. Test for PBBs/PBDEs Contents



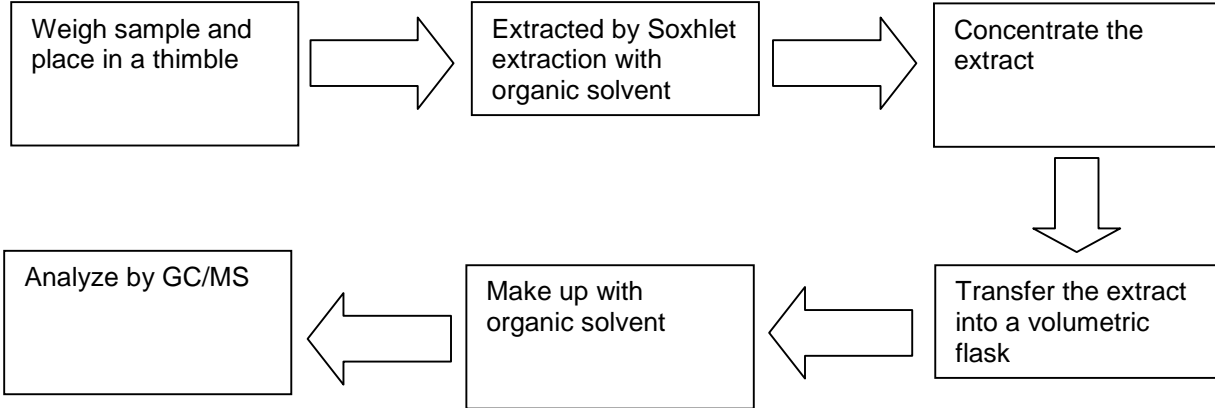
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6. Test for Phthalate Contents



Remarks:

*1: list of appropriate acid:

Material	Acid added for digestion
Polymers	HNO ₃ ,HCl,HF,H ₂ O ₂ ,H ₃ BO ₃
Metals	HNO ₃ ,HCl,HF
Electronics	HNO ₃ ,HCl,H ₂ O ₂ ,HBF ₄

*2: If the result of spot test is positive, Chromium VI would be determined as detected.

Date sample received: Jan.12, 2018

Testing period: Jan.12, 2018 To Jan.24, 2018

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2 Formaldehyde Release Content

As per test method EN 717-3:1996, formaldehyde release content was determined by UV-Visible Spectrophotometer(UV-Vis) analysis.

Result: ND

Remark: ND = Not Detected
Detection Limit = 5 mg/kg (based on dry weight)

Tested Component: See component list in the last section of this report.

Date sample received: Jan.12, 2018

Testing period: Jan.12, 2018 To Jan.17, 2018

To be continued

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Tests Conducted



Components List:

- (1) beige plastic (inside).
- (2) beige plastic excluding coating.
- (3) beige/grey coating on plastic.

End of report

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