

Number : WUXH00017044

Applicant : ZHEJIANG WEIWEI OPTOELECTRONIC TECHNOLOGY  
CO.,LTD  
NO.2 JINLI ROAD,ECONOMIC  
DEVELOPMENT ZONE,HAINING CITY  
Attn : JIANG MINGJIE

Date : Sep 04, 2013

Four (4) Groups Of Submitted Sample Said To Be :  
Item Name : Lamp Bead.  
Item No. : (A)3528;(B)2835;(C)3014;(D)5050.  
Goods Exported To : Europe, U.S.A, Japan.

Tests Conducted:  
As Requested By The Applicant, For Details Refer To Attached Pages

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
(A),(B),(C),(D)	With Reference To Test Method Of IEC 62321 Edition 1.0: 2008 And Maximum Concentration Limits Quoted From RoHS Directive 2011/65/EU.	Pass

Prepared And Checked By:  
For Intertek Testing Services Wuxi Ltd.



Jessica Lu  
General Manager



Tests Conducted (As Requested By The Applicant)

1 RoHS Directives Test

(A) Test Result Summary:

Testing Item	Result			
	(A)	(B)	(C)	(D)
Cadmium (Cd) Content (mg/kg)	ND	ND	ND	ND
Lead (Pb) Content (mg/kg)	ND	ND	ND	ND
Mercury (Hg) Content (mg/kg)	ND	ND	ND	ND
Chromium (VI) (Cr <sup>6+</sup> ) Content (mg/kg)(For Non-Metal)	ND	ND	ND	ND
Polybrominated Biphenyls (PBBs)(mg/kg)				
Monobrominated Biphenyls (MonoBB)	ND	ND	ND	ND
Dibrominated Biphenyls (DiBB)	ND	ND	ND	ND
Tribrominated Biphenyls (TriBB)	ND	ND	ND	ND
Tetrabrominated Biphenyls (TetraBB)	ND	ND	ND	ND
Pentabrominated Biphenyls (PentaBB)	ND	ND	ND	ND
Hexabrominated Biphenyls (HexaBB)	ND	ND	ND	ND
Heptabrominated Biphenyls (HeptaBB)	ND	ND	ND	ND
Octabrominated Biphenyls (OctaBB)	ND	ND	ND	ND
Nonabrominated Biphenyls (NonaBB)	ND	ND	ND	ND
Decabrominated Biphenyl (DecaBB)	ND	ND	ND	ND
Sum Of PBBs	ND	ND	ND	ND
Polybrominated Diphenyl Ethers (PBDEs)(mg/kg)				
Monobrominated Diphenyl Ethers (MonoBDE)	ND	ND	ND	ND
Dibrominated Diphenyl Ethers (DiBDE)	ND	ND	ND	ND
Tribrominated Diphenyl Ethers (TriBDE)	ND	ND	ND	ND
Tetrabrominated Diphenyl Ethers (TetraBDE)	ND	ND	ND	ND
Pentabrominated Diphenyl Ethers (PentaBDE)	ND	ND	ND	ND
Hexabrominated Diphenyl Ethers (HexaBDE)	ND	ND	ND	ND
Heptabrominated Diphenyl Ethers (HeptaBDE)	ND	ND	ND	ND
Octabrominated Diphenyl Ethers (OctaBDE)	ND	ND	ND	ND
Nonabrominated Diphenyl Ethers (NonaBDE)	ND	ND	ND	ND
Decabrominated Diphenyl Ether (DecaBDE)	ND	ND	ND	ND
Sum Of PBDEs	ND	ND	ND	ND

Remark:

mg/kg = Milligram Per Kilogram = ppm

ND = Not Detected

Tests Conducted (As Requested By The Applicant)

(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)

The Above Limits Were Quoted From RoHS Directive 2011/65/EU For Homogeneous Material.

(C) Test Method:

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd)Content	With Reference To IEC 62321 Edition 1.0: 2008, By Acid Digestion Until The Tested Sample Was Totally Dissolved, And Determined By ICP-OES.	2 mg/kg
Lead (Pb)Content	With Reference To IEC 62321 Edition 1.0: 2008, By Acid Digestion Until The Tested Sample Was Totally Dissolved, And Determined By ICP-OES.	2 mg/kg
Mercury (Hg)Content	With Reference To IEC 62321 Edition 1.0: 2008, By Acid Digestion Until The Tested Sample Was Totally Dissolved, And Determined By ICP-OES.	2 mg/kg
Chromium (VI) (Cr <sup>6+</sup> ) Content (For Non-Metal)	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)	With Reference To IEC 62321 Edition 1.0: 2008, By Solvent Extraction And Determined By GC/MS And Further HPLC Confirmation When Necessary.	5 mg/kg

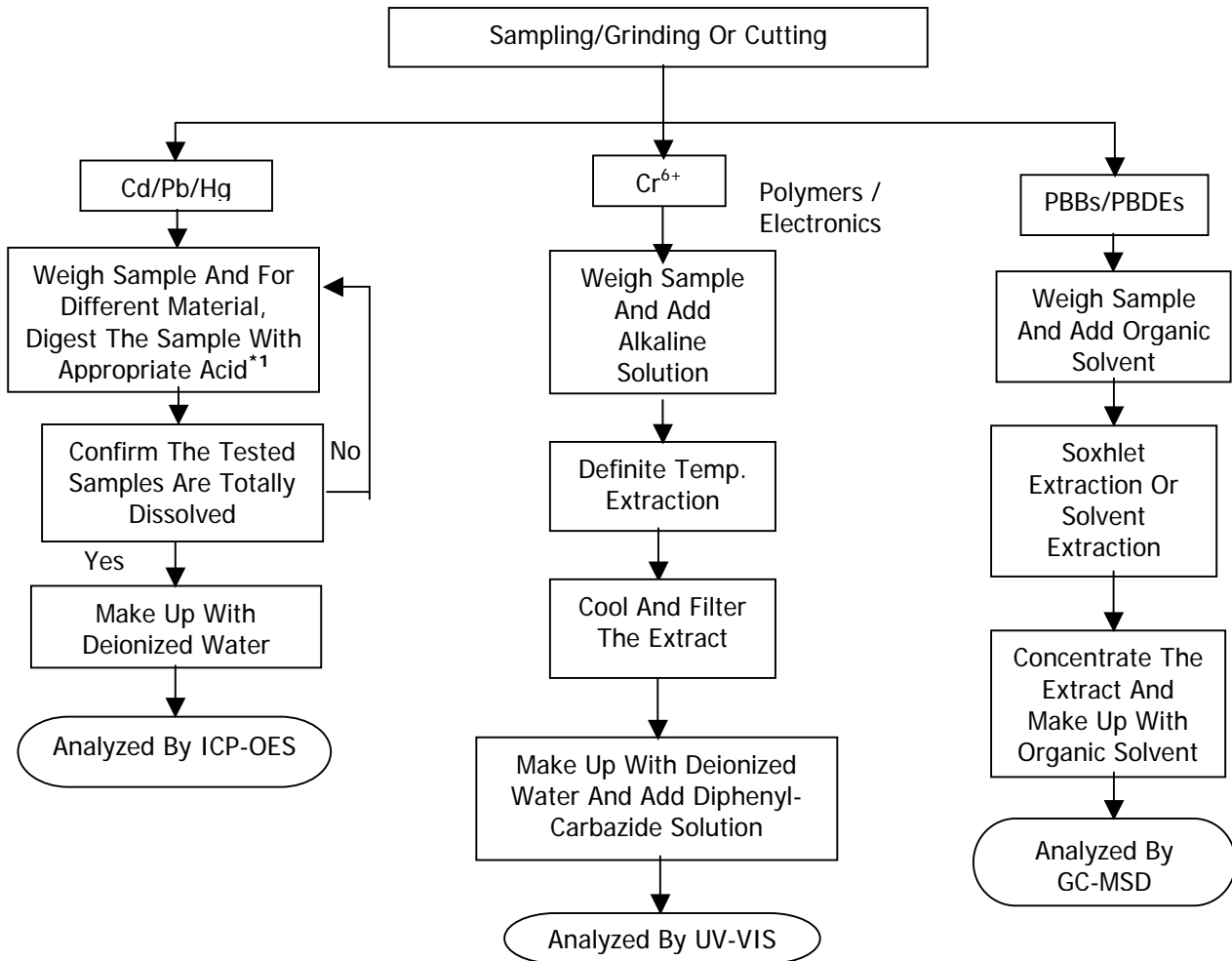
Date Sample Received: Aug 21, 2013

Testing Period: Aug 21, 2013 To Sep 3, 2013

Tests Conducted (As Requested By The Applicant)

(D) Measurement Flowchart:

Reference Standard: IEC 62321 Edition 1.0: 2008



Chemist: Inorganic(Jenny Xu/Eve Deng)  
 Organic (April Zang/Zoe Zhang)

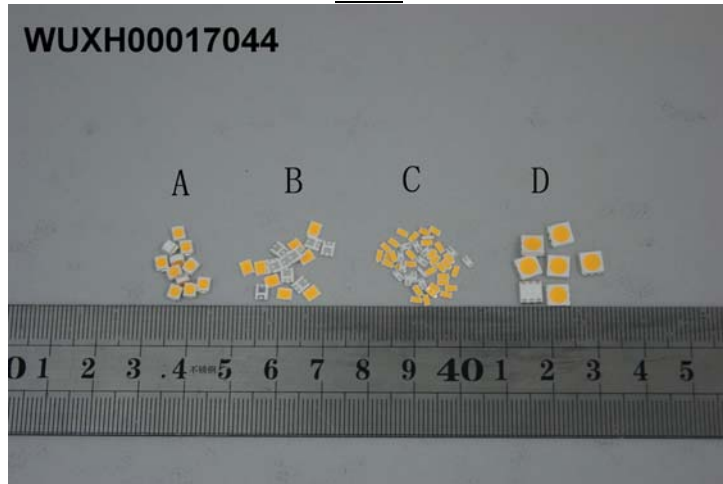
Remarks:

\*1: List Of Appropriate Acid

Material	Acid Added For Digestion
Polymers	HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>3</sub> BO <sub>3</sub>
Metals	HNO <sub>3</sub> , HCl, HF
Electronics	HNO <sub>3</sub> , HCl, H <sub>2</sub> O <sub>2</sub> , HBF <sub>4</sub>

Tests Conducted (As Requested By The Applicant)

Photo



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