

Applicant: AILUN ELECTRONIC TECHNOLOPY (H.K) LIMITED

1001R.10F TAIYOU BUILDING.181 FOHNSTON ROAD,

WANCHAI HK

Sample Description:

The following submitted sample(s) said to be:

Item Name : Film Capacitor

Model No. : NA

Additional Info. : IKEA's Supplier Code: 2452

Date of Sample Received : Aug 30, 2018

Testing Period : Aug 30, 2018 to Sep 13, 2018

Tests conducted:

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

Comment:

The results of tested component(s) do not exceeded the limit of Lead (Pb) of IKEA Specification IOS-PRG-0027 Version No. AA-224712-5, whereas did not exceed the limits of Cadmium (Cd), Mercury (Hg), Chromium (VI) (Cr6+), Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs) of IKEA Specification IOS-PRG-0027 Version No. AA-224712-5.

Tested Sample	Standard	Result
Tested components of submitted sample	Phthalates content based on RoHS Directive 2011/65/EU and (EU) 2015/863	Pass

Authorized by:

For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:

Martin He

Senior Project Engineer





RoHS Chemical Test Tested Components:

- (1) Capacitor

 - (1a) Brown plastic with brwon plastic(1b) Transparent/silver color electrolytic paper(1c) Silver color metal (pin)

Part A:

(A) Test Result Summary (For IKEA Specification IOS-PRG-0027 Version No. AA-224712-5):

Testing Item	Result	
resung item	(1a)	(1b)
Cadmium (Cd) Content (mg/kg)	ND	ND
Lead (Pb) Content (mg/kg)	ND	ND
Mercury (Hg) Content (mg/kg)	ND	ND
Chromium (VI)(Cr6+) Content (mg/kg) (For Non-metal)	ND	ND
Polybrominated Biphenyls (PBBs)(mg/kg)		
Monobromobiphenyl (MonoBB)	ND	ND
Dibromobiphenyl (DiBB)	ND	ND
Tribromobiphenyl (TriBB)	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND
Polybrominated Diphenyl Ethers (PBDEs)(mg/kg)		
Monobromodiphenyl Ether (MonoBDE)	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND

Tooting Itom	Result	
Testing Item	(1c)	
Cadmium (Cd) Content (mg/kg)	ND	
Lead (Pb) Content (mg/kg)	ND	
Mercury (Hg) Content (mg/kg)	ND	
Chromium (VI)(Cr6+) Result (By Boiling Water Extraction	< 0.10	
on Metal)(μg/cm²)	(Negative)	

mg/kg = milligram per kilogram based on dry weight of sample = ppm ND = Not detected

Page 2 of 5



(B) IKEA Requirement:

Substance	Metal	Plastics and Other Polymerics	Ceramics and Glass	Other Materials(Including Surface Coating)
Cadmium (Cd)	0.01%	0.01%	0.01%	0.01%
((100 mg/kg)	(100 mg/kg)	(100 mg/kg)	(100 mg/kg)
Lead (Pb)	0.1%	0.03%	0.1%	0.1%
Leau (Fb)	(1000 mg/kg)	(300 mg/kg)	(1000 mg/kg)	(1000 mg/kg)
Moroury (Ha)	0.01%	0.005%	0.005%	0.005%
Mercury (Hg)	(100 mg/kg)	(50 mg/kg)	(50 mg/kg)	(50 mg/kg)
Chromium (VI)	Mogativa	0.1%	0.1%	0.1%
(Cr ⁶⁺)	Negative	(1000 mg/kg)	(1000 mg/kg)	(1000 mg/kg)
Polybrominated		0.1%		0.1%
Biphenyls (PBBs)	-	(1000 mg/kg)	-	(1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	-	0.1% (1000 mg/kg)	-	0.1% (1000 mg/kg)

(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
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321-7-1 edition 1.0:2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.10 µg/cm ²
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



Part B:

RoHS Chemical Test

(A)Test Result Summary:

Tooting Itom	Result	
Testing Item	(1a)	(1b)
Phthalates(mg/kg)		
Bis(2-ethylhexyl)phthalate(DEHP)	ND	ND
Butyl benzyl phthalate(BBP)	ND	ND
Dibutyl phthalate(DBP)	ND	ND
Diisobutyl phthalate(DIBP)	ND	ND

ND = Not detected

mg/kg= milligram per kilogram

(B) RoHS Requirement:

Restricted Substances	Limits	
Phthalates(DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)	

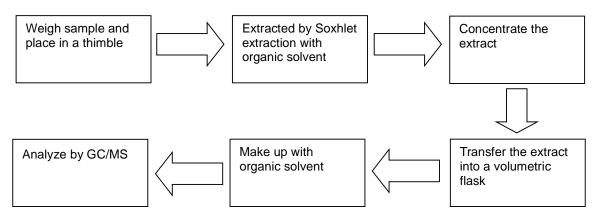
The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(C) Test Method:

Testing Item	Testing Method	Reporting Limit
Phthalates(DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0:2017,by solvent extraction and determined by GC/MS	100mg/kg

(D)Measurement Flowchart:

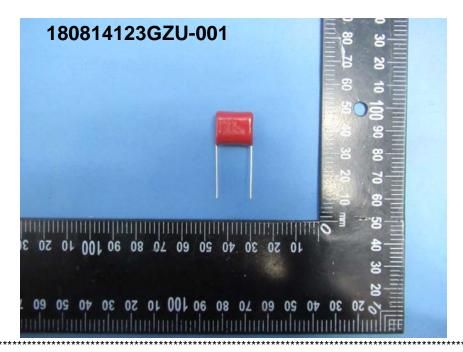
Test for Phthalate Contents







Sample photo



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.