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Applicant SHENZHEN HAOTIAN ELECTRONICS CO LTD.

Address B13 AROUND MAOXHOU INDUSTRIAL SA COMMUNITY SONGGANG

STREET STBAOAN SHENZHEN

The following sample(s) and sample information was/were submitted and identified by/on the

behalf of the client

Sample Name 电容器 Color 蓝色

Sample Received Date Nov. 17, 2016

Testing Period Nov. 17, 2016 to Nov. 23, 2016

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg),

Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Phthalates(DBP, BBP,

DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Tested by

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freme Zhang

Reviewed by

Cathy Huang

Techn

tre Report Sandrna donal Group Co.,Ltd.

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Date

Nov. 23, 2016

Danny Liu Technical Manager

No. R187211896

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Test Method

Tested Item(s)	Test Method	Measured Equipment(s)	
Lead(Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	
Cadmium(Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	
Mercury(Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES	
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	
	IEC 62321-7-1:2015		
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	
Phthalates(DBP, BBP, DEHP, DIBP)	Refer to IEC 62321-8 CDV	GC-MS	

Test Result(s)

Tosted Item(s)	Result		MDL
Tested Item(s)	(1)	(2)	WIDL
Lead(Pb)	N.D.	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	N.D.	2 mg/kg
Mercury(Hg)	N.D.	N.D.	2 mg/kg
Hexavalent	N.D.		2 mg/kg
Chromium(Cr(VI))	/°>	N.D. ▼	$0.10 \mu\text{g/cm}^2(\text{LOQ})$



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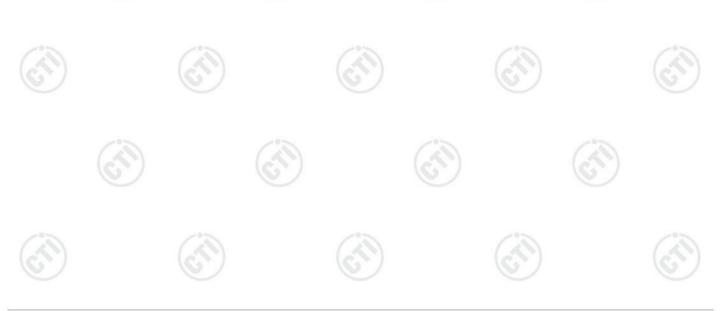


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Test Result(s)

Tested Item(s)	Result	MDI	
Tested Item(s)	(1)	MDL	
Polybrominated Biphenyls(PBBs)			
Monobromobiphenyl	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	
Hexabromobiphenyl	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	







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Test Result(s)

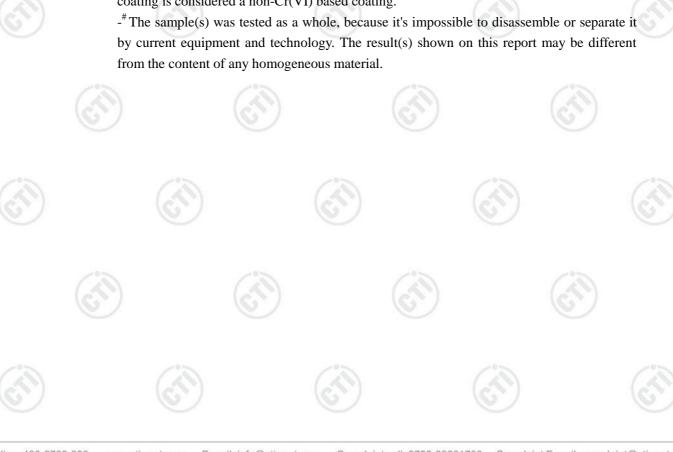
Total Harris	Result	MDL
Tested Item(s)	(1)	
Phthalates		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Benzylbutyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-2-ethylhexyl phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Sample/Part Description

- (1) Blue body(Tested as a whole)#
- (2) Metal pin with silvery plating

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- - $^{\blacktriangledown}$ The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μ g/cm². The coating is considered a non-Cr(VI) based coating.





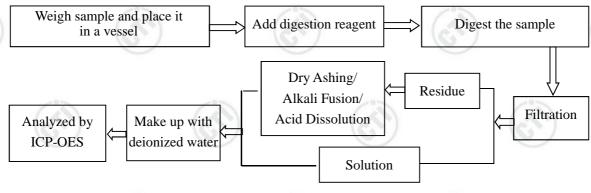
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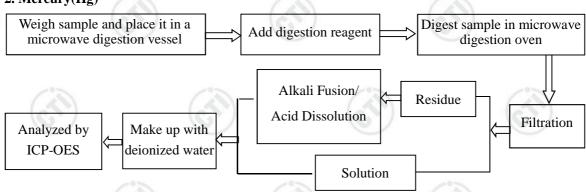
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Test Process

1. Lead(Pb), Cadmium(Cd)

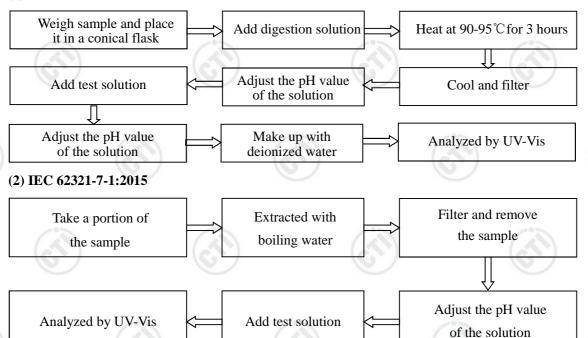


2. Mercury(Hg)



3. Hexavalent Chromium (Cr(VI))

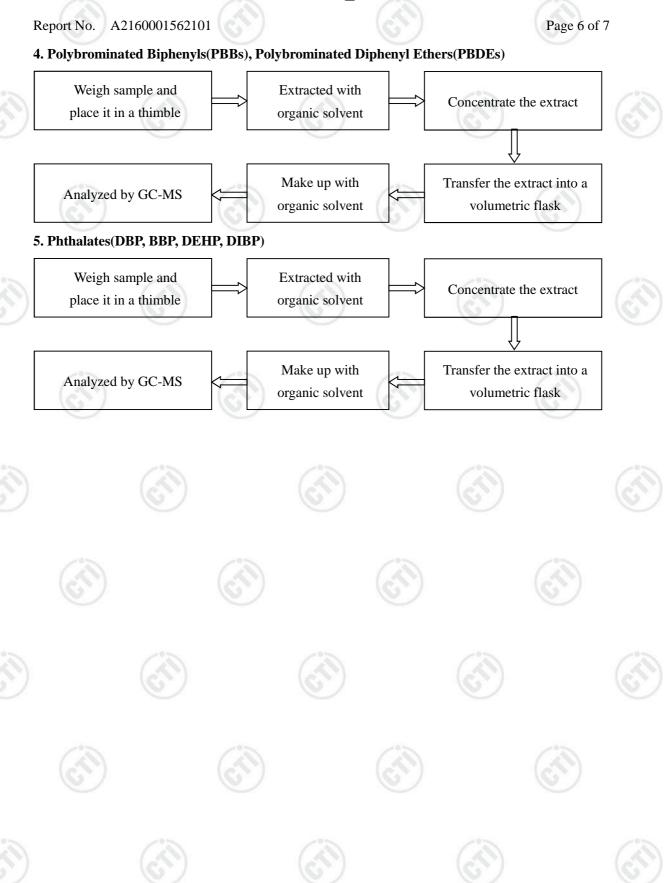
(1) IEC 62321:2008 Ed.1 Annex C



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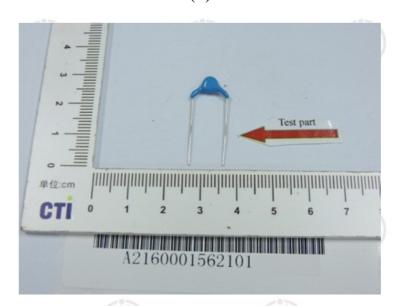
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Photo(s) of the sample(s)

(1)



(2)



*** End of Report ***

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