



中国认可
国际互认
检测
TESTING
CNAS L9381



Test Report

No.: EG201027002C01MVer.1

Date: Oct.30, 2020

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Applicant : LEDTECH ELECTRONICS CORPORATION
Address : 2nd Floor, Research and Development Building 1 (Zone 22) Guiyuan Rd. North, Jixi Rd.
West, Duanzhou District, Zhaoqing City, Guangdong Province China

The sample and sample information tested below are provided and confirmed by the applicant

Sample Name : LED DISPLAY

Model : /

Received Date : Oct.27, 2020

Test Period : Oct.27, 2020~Oct.30, 2020

Test Summary :

Test Item	Conclusion
Directive 2011/65/EU (RoHS) and its Amendments	Pass

Remark: Pass: Meet the requirement; Fail: Doesn't meet the requirement; N/A: Without conclusions or provide test results only.

Signed for and on behalf of
EMTEK(Suzhou) Co., Ltd.



Prepared by:

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Reviewed by:

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Technical supervisor

Approved by:

Jason
Jiang Yufeng, Jason

Authorized signatory
Oct.30, 2020

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Sample Description

(The sample and sample information tested below are provided and confirmed by the applicant)

Sample No.	Sample Number	Sample Name	Quantity
1	EG20102700201	LED DISPLAY	1pc
1.1		Shell	--
1.2		Seal grease	--
1.3		PCB	--
1.4		Pin	--

Summary of Test Results

1. RoHS

1.1 Test Method

Test Item	Test Method
Lead (Pb), Cadmium (Cd)	IEC 62321-5:2013
Mercury (Hg)	IEC 62321-4:2013+A1:2017
Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2017
PBBs, PBDEs	IEC 62321-6:2015
DEHP, BBP, DBP, DIBP	IEC 62321-8:2017

1.2 Test Instrument

Instrument Name	Manufacturer	Instrument Model
ICP-OES	Agilent	720
UV-Vis	SHIMADZU	UV-1800
GC-MS	Agilent	7890B-5977A
GC-MS	SHIMADZU	QP2010 Ultra

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1.3 Test Results: Limit according to Directive 2011/65/EU (RoHS) and its Amendments

Test Item	Result(mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	1.1	1.2	1.3	1.4		
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	2	1000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	2	100
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2	1000
Hexavalent Chromium (Cr ⁶⁺)	N.D.	N.D.	N.D.	N.D.	Non-metal: 8	1000
					Metal: 0.10µg/cm ²	/

Test Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	1.1	1.2	1.3		
(1 – 10) Polybrominated Biphenyls(Mono – Deca) (PBBs)	N.D.	N.D.	N.D.	--	1000
Monobromobiphenyl	N.D.	N.D.	N.D.	5	--
Dibromobiphenyl	N.D.	N.D.	N.D.	5	--
Tribromobiphenyl	N.D.	N.D.	N.D.	5	--
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5	--
Pentabromobiphenyl	N.D.	N.D.	N.D.	5	--
Hexabromobiphenyl	N.D.	N.D.	N.D.	5	--
Heptabromobiphenyl	N.D.	N.D.	N.D.	5	--
Octabromobiphenyl	N.D.	N.D.	N.D.	5	--
Nonabromobiphenyl	N.D.	N.D.	N.D.	5	--
Decabromobiphenyl	N.D.	N.D.	N.D.	5	--
Polybrominated Diphenylethers(Mono – Deca) (PBDEs)	N.D.	N.D.	N.D.	--	1000
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5	--
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5	--
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5	--

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Test Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	1.1	1.2	1.3		
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5	--
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5	--
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5	--
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5	--
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5	--
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5	--
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5	--

Test Item	CAS No.	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		1.1	1.2	1.3		
Bis(2-ethylhexyl) phthalate(DEHP)	117-81-7	N.D.	N.D.	N.D.	50	1000
Butyl benzyl phthalate (BBP)	85-68-7	N.D.	N.D.	N.D.	50	1000
Dibutyl phthalate (DBP)	84-74-2	N.D.	N.D.	N.D.	50	1000
Diisobutyl phthalate (DIBP)	84-69-5	N.D.	N.D.	N.D.	50	1000

Note

- 1) N.D. = Not Detected (Less than Detection Limit).
- 2) MDL = Method Detection Limit.
- 3) Because it is difficult to measure the weight of the anticorrosion in plating accurately, the content of hexavalent chromium in plating shows in its quality of unit area.
Unit: $\mu\text{g}/\text{cm}^2$. Because the storage conditions and production date of the test samples are unknown, the test results of Cr(VI) are only represent its state during test period.
 - a. When sample Cr(VI) concentration is less than $0.10 \mu\text{g}/\text{cm}^2$, the sample is negative for Cr(VI), the sample not contain Cr(VI), the test result is Pass.
 - b. When sample Cr(VI) concentration between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$, the result need to reconfirm, the test result is not judge.
 - c. When sample Cr(VI) concentration greater than $0.13 \mu\text{g}/\text{cm}^2$, the sample is positive for Cr(VI), the sample contain Cr(VI), the test result is Fail.
- 4) Specimens, which requested to determine Lead, Cadmium and Mercury content, have been dissolved completely.

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Test Report

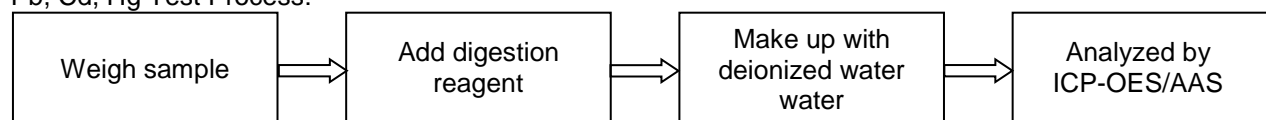
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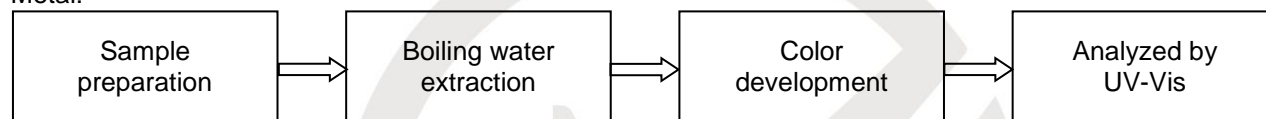
1.4 Test Flowchart

Pb, Cd, Hg Test Process:

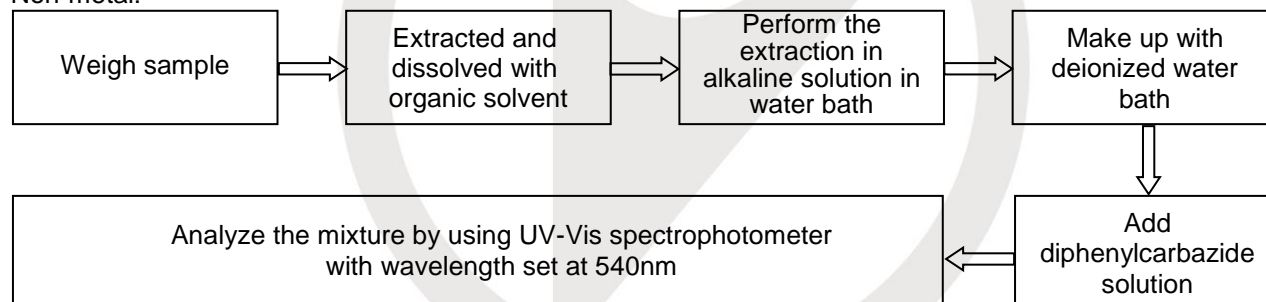


Cr⁶⁺ Test Process:

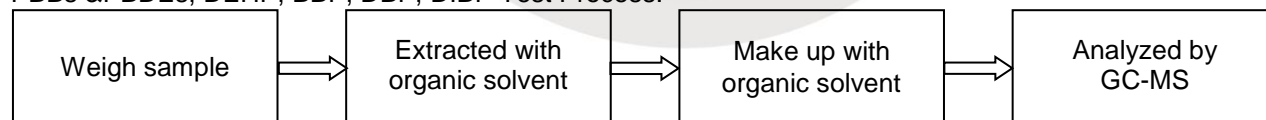
Metal:



Non-metal:



PBBs & PBDEs, DEHP, BBP, DBP, DIBP Test Process:



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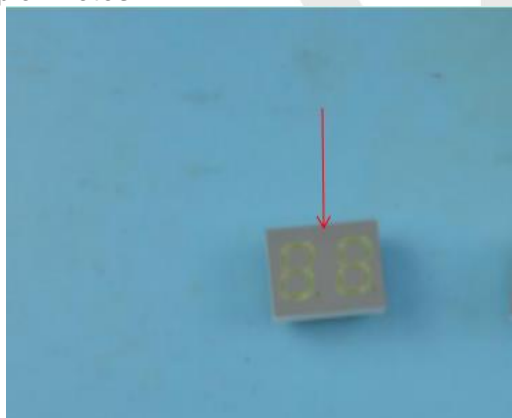
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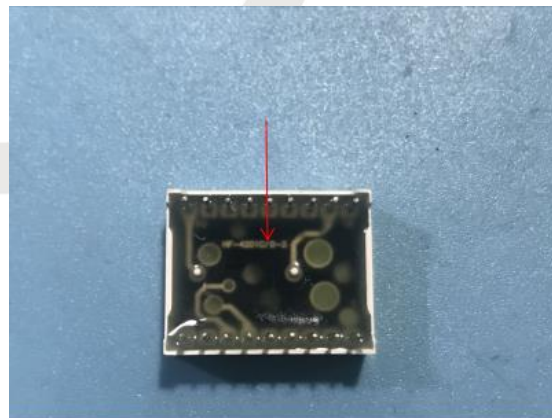
Product Photo



Sample Photos



1.1



1.2

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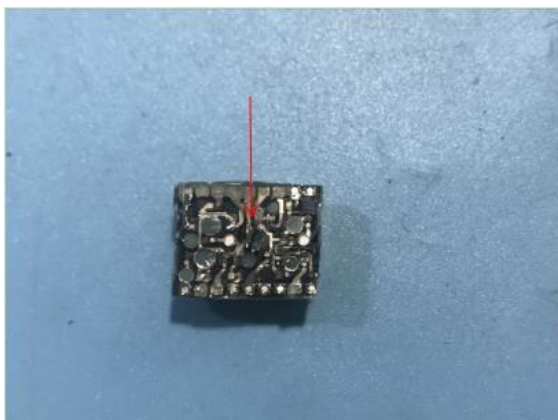


Test Report

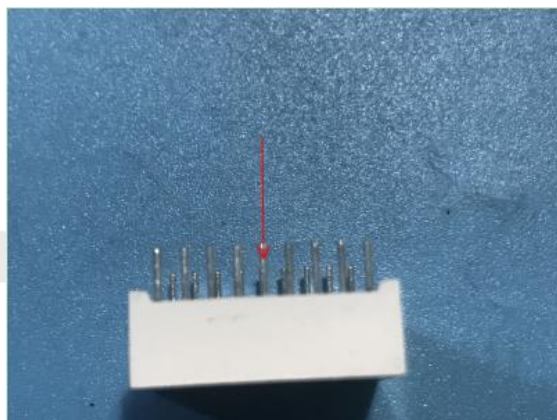
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1.3



1.4

*** End of Report ***

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