



中国认可
国际互认
检测
TESTING
CNAS L3150



Test Report

No.: ED210125015C002

Date: Jan. 29, 2021

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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

Sample Name : CHIP LED LAMP

Received Date : Jan. 25, 2021

Test Period : Jan. 25, 2021 ~ Jan. 29, 2021

Test Requested : As requested by the client, according to the directive 2011/65/EU (RoHS) and amendment directive (EU) 2015/863, to determine:

- 1) the content of Cadmium, Lead and Mercury in the submitted sample;
- 2) the content of Hexavalent Chromium in the submitted sample;
- 3) the content of PBBs (polybrominated biphenyls) and PBDEs (Polybrominated diphenyl-ethers) in the submitted sample;
- 4) the contents of the regulated phthalate in the submitted sample.

Test Results : Please refer to next page (s).

Conclusion:

The test results for the submitted sample **COMPLY WITH** the requirements of RoHS Directive 2011/65/EU and amendment directive (EU) 2015/863.

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



Prepared by: Kira
Fu Kexia, Kira
Report Engineer

Reviewed by: Carrie
Zhang Hongjing, Carrie
Supervisor

Approved by: Li Wei
Li Wei, Lisa
Authorized signatory
Jan. 29, 2021

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Test Results:

Test Method: 1) to refer to IEC 62321-5: 2013, determine the Cadmium, Lead content by ICP-OES.
 2) to refer to IEC 62321-4:2013+A1:2017, determine the Mercury content by ICP-OES.
 3) to refer to IEC 62321-7-2:2017, determine the Hexavalent Chromium content by UV-VIS.
 4) to refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS.
 5) to refer to IEC 62321-8:2017, determine the Phthalate content by GC-MS.

Test Item	Test Result (mg/kg)	Reporting Limit (mg/kg)	Law Limit (mg/kg)
	1		
Cadmium (Cd)	ND	2	100
Lead (Pb)	ND	2	1000
Mercury (Hg)	ND	2	1000
Hexavalent Chromium (Cr ⁶⁺)	ND	2	1000

Note: mg/kg = parts per million = ppm ND = Not Detected (less than Reporting limit)

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Test Results:

Test Item	Test Result (mg/kg)	Reporting Limit (mg/kg)	Law Limit (mg/kg)
	1		
Polybrominated Biphenyls (Mono – Deca) (PBBs)	< 50	--	1000
Monobromobiphenyl	ND	5	--
Dibromobiphenyl	ND	5	--
Tribromobiphenyl	ND	5	--
Tetrabromobiphenyl	ND	5	--
Pentabromobiphenyl	ND	5	--
Hexabromobiphenyl	ND	5	--
Heptabromobiphenyl	ND	5	--
Octabromobiphenyl	ND	5	--
Nonabromobiphenyl	ND	5	--
Decabromobiphenyl	ND	5	--
Polybrominated Diphenylethers (Mono – Deca) (PBDEs)	< 50	--	1000
Monobromodiphenyl ether	ND	5	--
Dibromodiphenyl ether	ND	5	--
Tribromodiphenyl ether	ND	5	--
Tetrabromodiphenyl ether	ND	5	--
Pentabromodiphenyl ether	ND	5	--
Hexabromodiphenyl ether	ND	5	--
Heptabromodiphenyl ether	ND	5	--
Octabromodiphenyl ether	ND	5	--
Nonabromodiphenyl ether	ND	5	--
Decabromodiphenyl ether	ND	5	--

Note: mg/kg = parts per million = ppm ND = Not Detected (less than Reporting limit)

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Test Results:

Test Item	Test Result (mg/kg)	Reporting Limit (mg/kg)	Requirement (mg/kg)
	1		
Dibutyl phthalate(DBP)	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	30	1000

Note: mg/kg = parts per million = ppm ND = Not Detected (less than Reporting limit)

Tested Materials:

No.	Description
1	SMD LED

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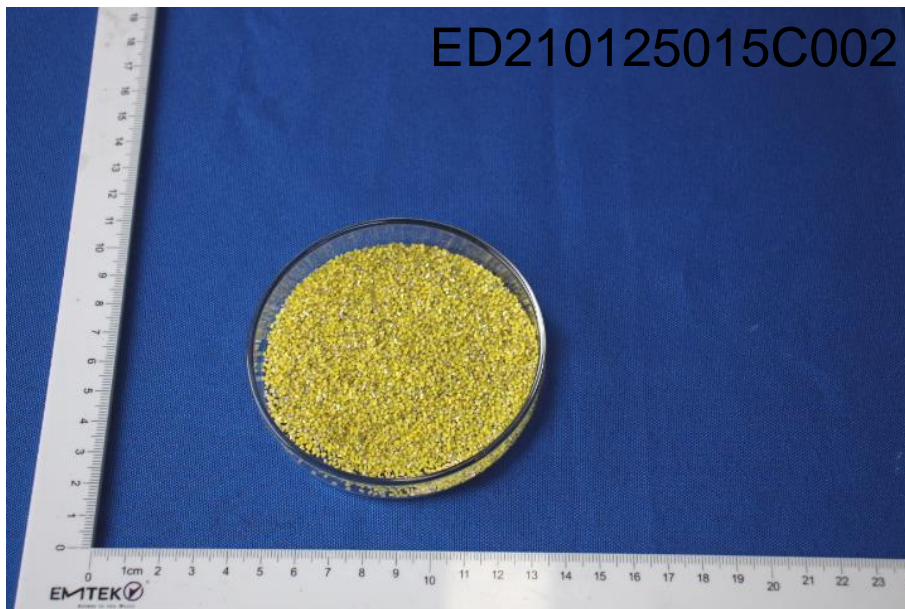
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Sample Photo



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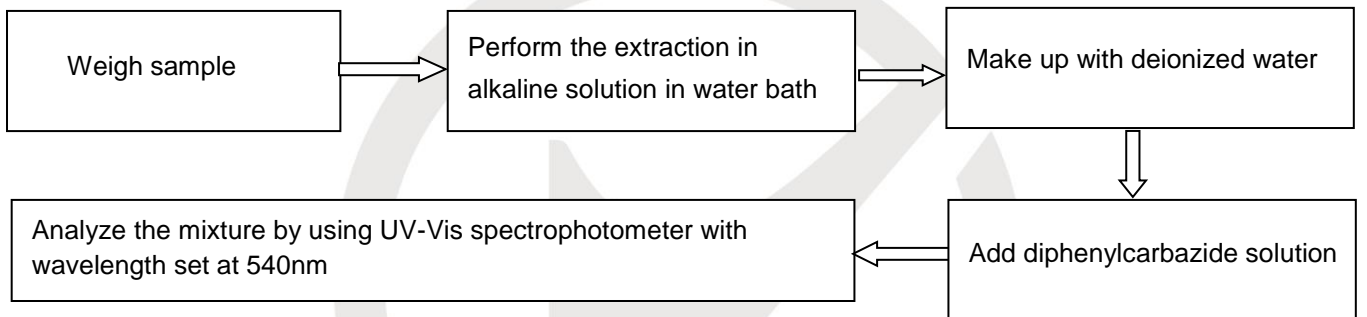
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TEST FLOWCHART

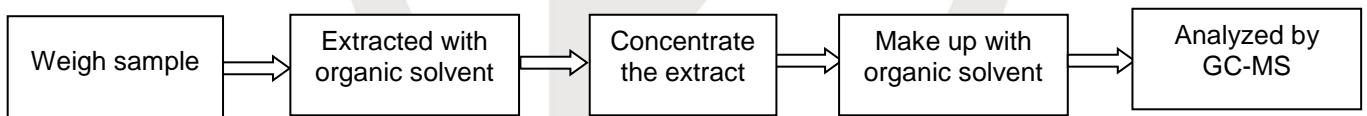
Pb/Cd/Hg Test Process:



Cr⁶⁺ Test Process:



PBBs/PBDEs/Phthalates Test Process:



*** End of Report ***

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