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Company Name DONG GUAN BRIGHT LED ELECTRONICS LTD

shown on Report

Address NO.8,GAO LONG EAST RD ,GAOBU TOWN,DONG GUAN CTY,GUANG DONG

PROVINCE, CHINA 523283

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

the applicant

	11	
CTI Sample ID		Sample Name(s)
	001	PLCC series 支架
	002	PLCC series 塑膠
	003	PLCC series 樹脂

Final Product Name PLCC

Sample Received Date Mar. 12, 2024

Testing Period Mar. 12, 2024 to Mar. 27, 2024

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

Date

Apr. 1, 2024

Hill Zheng Technical Manager

No. R262627125

Centre Testing International Group Co., Ltd.

Neurlang, Sxing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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********	***************	*******		
Conclusion				
Tested Sample	According to standard/directive	Result		
Submitted Sample	RoHS Directive 2011/65/EU with	PASS		
Submitted Sample	amendment (EU) 2015/863	rass		
*********	***************	********		
PASS means that the results shown	on the report comply with the limits set by RoHS Directive 2011	/65/EU with amendment (EU)		
2015/863.	2015/863.			

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Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
	IEC 62321-7-1:2015	UV-Vis
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	LIV V:-/ICD OES
	Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

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Test Result(s)

Tested Item(s)	Result			MDL	Limit
resteu riem(s)	001	002	003	MIDL	Limit
Lead (Pb)	58 mg/kg	N.D.	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. [▼]			0.10 μg/cm ² (LOQ)	1000 mg/kg
		N.D.	N.D.	8 mg/kg	1000 mg/kg

Tested Item(s)	Result		- MDL	Limit
rested item(s)	002	003	MIDL	Lillit
Polybrominated Biphenyls (PBBs)		•	
Monobromobiphenyl	N.D.	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 mg/kg
Hexabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	N.D.	5 mg/kg	

Tested Item(s)	Result		MDL	Limit
rested item(s)	002	003		Limit
Polybrominated Diphenyl Ethers	(PBDEs)			
Monobromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 m ~/lr~
Hexabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	5 mg/kg	



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Tested Item(s)	Res	MDL	Limit	
rested item(s)	002	003	WIDL	Lillit
Phthalates (DBP, BBP, DEHP, DI	BP)			
Dibutyl phthalate (DBP)	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-74-2	N.D.	N.D.	JO mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	N.D.	50 mg/kg	1000 mg/kg
(DEHP) CAS#:117-81-7				1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-69-5				1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Metal with silvery plating
2	002	White plastic
3	003	Transparent solid

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
- -1000 mg/kg = 0.1%
- -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 µg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Note: This testing report revised the full text based on the original report of No. A224012263810101.

This testing report displaces the original one which was invalid since the date of this testing

report released.



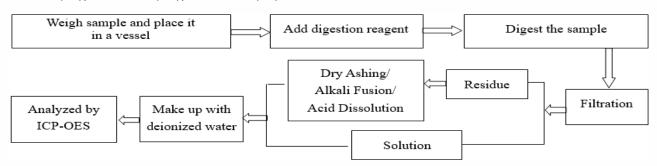
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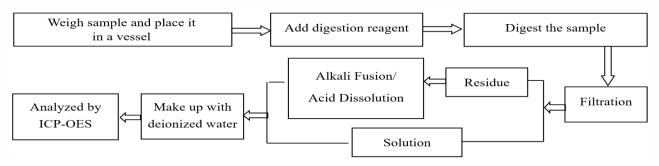
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Test Process

1. Lead (Pb), Cadmium (Cd), Chromium(Cr)

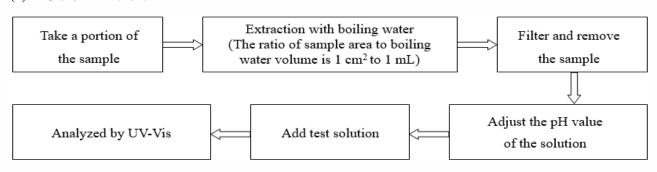


2. Mercury (Hg)

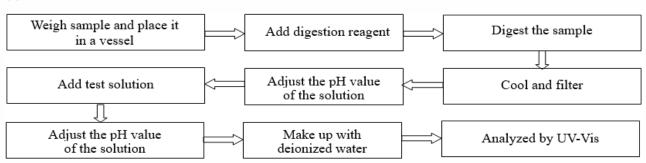


3. Hexavalent Chromium (Cr(VI))

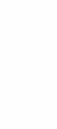
(1) IEC 62321-7-1:2015



(2) IEC 62321-7-2:2017



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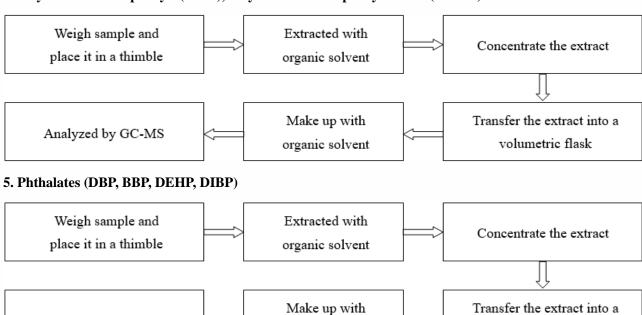


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Analyzed by GC-MS

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4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



organic solvent

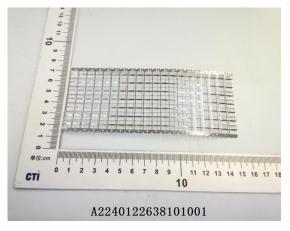
volumetric flask



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Photo(s) of the sample(s)







Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full;
- 6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***



Appendix

Client Reference Photo (Non-tested sample)



Statement:

- 1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
- 2. The Appendix Information is/are the supplement(s) for the Report A224012263810101R1.