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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

CTI Sample ID	Sample Name(s)
004	power、Argus series 支架
005	power、Argus series 塑膠
006	power、Argus series 樹脂

Final Product Name Sample Received Date Testing Period	HI POWER、 Argus series Mar. 12, 2024 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).



flill They Hill Zheng

**Technical Manager** 

Date

Apr. 1, 2024

No. R262627125

ing International Group Co.,Ltd.

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



# Report No. A224012263810102R1

CTI Sample ID	Reference Report No CTI Sample ID
004	A224012263810101R1-001
005	A224012263810101R1-002
006	A224012263810101R1-003

Remark:

The samples with the reference information in the table above are non-tested in this report. Test results and the photos of the " CTI Sample ID " column reference to " Reference Report No. - CTI Sample ID " column.

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## Conclusion

<b>Tested Sample</b>	According to standard/directive	Result
Cubmitted Commis	RoHS Directive 2011/65/EU with	PASS
Submitted Sample	amendment (EU) 2015/863	PASS
*****	***************************************	*****

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.

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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		
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of		
	Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	
(PBDEs)	IEC 02321-0.2013		
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	



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## Test Result(s)

Tosted Itom(a)	Result			MDI	T	
Tested Item(s)	004	005	006	– MDL	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	
		N.D.	N.D.	8 mg/kg	1000 mg/kg	
Hexavalent Chromium (Cr(VI))	N.D.*			0.10 μg/cm <sup>2</sup> (LOQ)	1000 mg/kg	
Tested Item(s)		Result		MDI	<b>.</b>	
Testeu Item(s)	005		006	MDL	Limit	
Polybrominated Biphenyls (PBBs	5)					
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		
resteu riem(s)	005		006		Linnt	
Polybrominated Diphenyl Ethers (PBDEs)						
Monobromodiphenyl ether	N.D.		N.D.	5 mg/kg	ŗ	
Dibromodiphenyl ether	N.D.		N.D.	5 mg/kg		
Tribromodiphenyl ether	ibromodiphenyl 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 ma/ka	
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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Result Tested Item(s) MDL Limit 005 006 Phthalates (DBP, BBP, DEHP, DIBP) Dibutyl phthalate (DBP) N.D. N.D. 50 mg/kg 1000 mg/kg CAS#:84-74-2 Butyl benzyl phthalate (BBP) N.D. N.D. 1000 mg/kg 50 mg/kg CAS#:85-68-7 Di-(2-ethylhexyl) phthalate N.D. N.D. 50 mg/kg 1000 mg/kg (DEHP) CAS#:117-81-7 Diisobutyl phthalate (DIBP) 1000 mg/kg N.D. N.D. 50 mg/kg CAS#:84-69-5

## Sample/Part Description

No.	CTI Sample ID	Description
1	004	Metal with silvery plating
2	005	White plastic
3	006	Transparent solid

# Remark: -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury. -Information Statement: Different names for the same product or part.

-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  $\mu$ g/cm<sup>2</sup>

- The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm<sup>2</sup>. 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. A224012263810102. This testing report displaces the original one which was invalid since the date of this testing report released.

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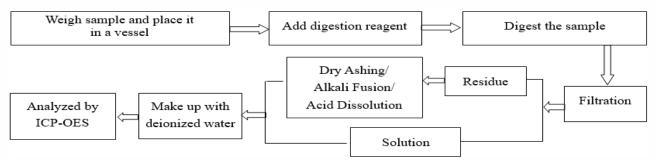
# CTI华测检测

# **Test Report**

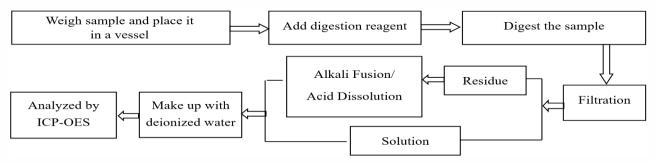
Report No. A224012263810102R1

## Test Process

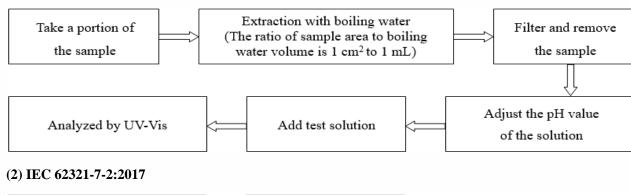
## 1. Lead (Pb), Cadmium (Cd), Chromium(Cr)

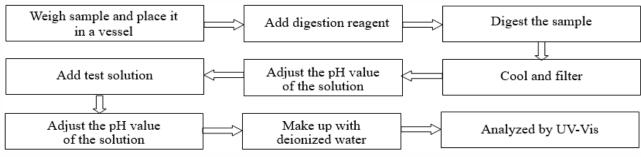


## 2. Mercury (Hg)



# 3. Hexavalent Chromium (Cr(VI)) (1) IEC 62321-7-1:2015





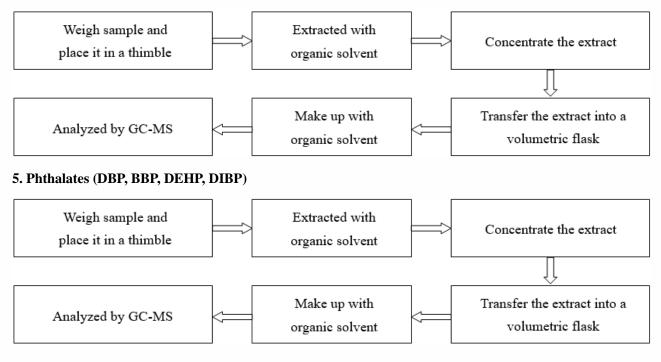
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## 4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)





Report No.

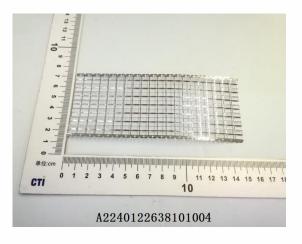
# **Test Report**

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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;
- 4. 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.

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2. The Appendix Information is/are the supplement(s) for the Report A224012263810102R1.