







Report No. A223010845210104 Page 1 of 9

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	Final Product Name	Sample Name(s)
004		power、Argus series 支架
005	HI POWER Argus series	power、Argus series 塑膠
006		power、Argus series 樹脂

Sample Received Date Mar. 15, 2023

Testing Period Mar. 15, 2023 to Mar. 31, 2023

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

Mar. 31, 2023

Technical Manager

ting International Group Co.,Ltd.

No. R450141684

CT Building Ying Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A223010845210	0104	Page 2 of 9
	**********	********
Conclusion Tested Sample	According to standard/directive	Result
Testeu Sample	According to standard/directive	Kesuit
Cubmitted Comple	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.		

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Report No. A223010845210104 Page 3 of 9

CTI Sample ID	Reference Report No CTI Sample ID
004	A223010845210101-001
005	A223010845210101-002
006	A223010845210101-003

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 Number - CTI Sample ID " column.

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Report No. A223010845210104 Page 4 of 9

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	UV-Vis/ICP-OES
	Total Chromium by IEC 62321-5:2013	UV-VIS/ICP-UES
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

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Report No. A223010845210104 Page 5 of 9

Test Result(s)

Tested Item(s)	Result			MDL	Limit
rested rem(s)	004	005	006	WIDL	Dinit
Lead (Pb)	9 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 ² (LOQ)	1000 mg/kg

Tested Item(s)	Result		MDL	Limit
Tested Item(s)	005	006	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 m a/lra
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)	005	006		Lillit
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 /1
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	

Page 6 of 9



Test Report

Report No. A223010845210104

Tested Item(s)	Result		MDL	Limit
rested frem(s)	005	006	WIDL	Limit
Phthalates (DBP, BBP, DEHP, DI	BP)	•		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	004	Metal with silvery plating
2	005	White plastic
3	006	Translucent 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
- -▼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 Statement: Different names for the same product or part.

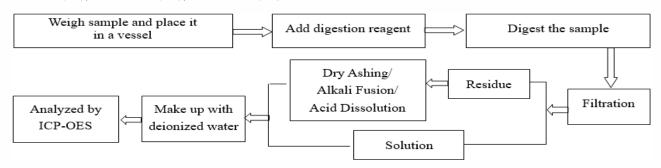


Report No. A223010845210104

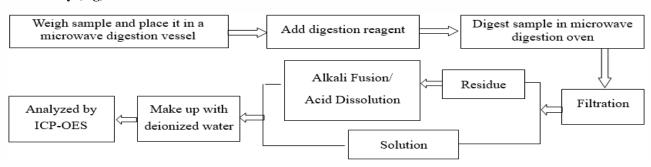
Page 7 of 9

Test Process

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

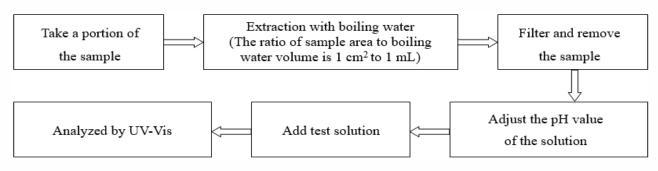


2. Mercury (Hg)

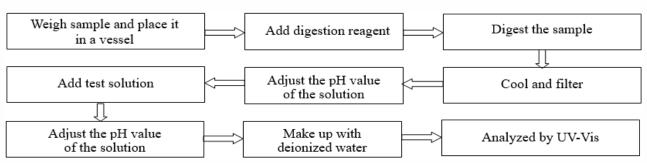


3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015



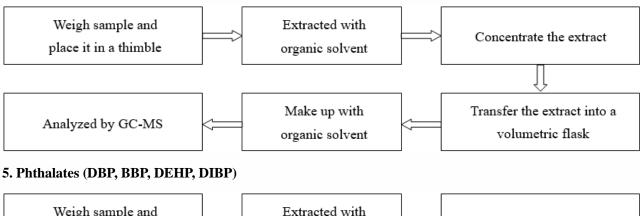
(2) IEC 62321-7-2:2017

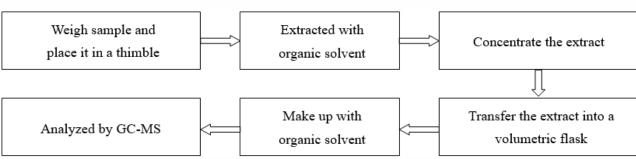




Report No. A223010845210104 Page 8 of 9

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





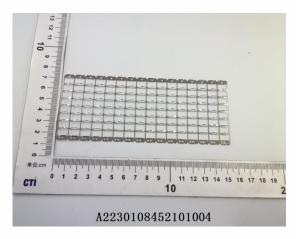
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com



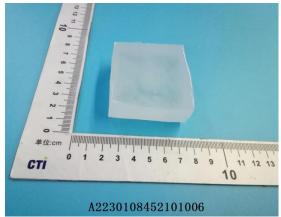


Report No. A223010845210104 Page 9 of 9

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. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

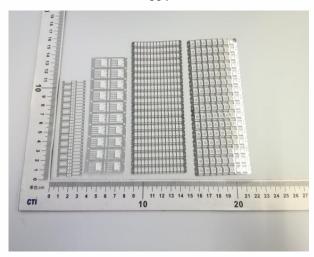
*** End of Report ***



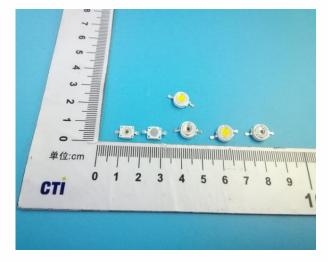
Appendix

Client Reference Photo (Non-tested sample)





Final Product



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 A223010845210104.