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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

Sample No.	Final Product Name	Sample Name(s)		
001		PLCC series 支架		
002	PLCC	PLCC series 塑膠		
003		PLCC series 樹脂		
Sample Received	Date Mar. 12, 2021			
Testing Period	Mar. 12, 2021 to Mar. 31, 2021	Mar. 12, 2021 to Mar. 31, 2021		
Test Requested	As specified by client, to test L Hexavalent Chromium (Cr(VI) Polybrominated Diphenyl Ethe DIBP) in the submitted sample	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/Tes	Cest Method/Test Result(s) Please refer to the following page(s).			

Tested by

Kid Zhang Hill Zhang

Reviewed by

Date

Mar. 31, 2021

Hill Zheng Technical Manager

No. R450149963

Child And The International Group Co., Ltd. Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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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		
	Total Chromium by IEC 62321-5:2013	UV-VIS/ICP-OES	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	EC 62221 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)

Tested Item(s)	Result			MDI	
rested rem(s)	001	002	003	MDE	
Lead (Pb)	55 mg/kg	N.D.	N.D.	2 mg/kg	
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	
Hexavalent Chromium (Cr(VI))		N.D.	N.D.	8 mg/kg	
	N.D.			0.10 μg/cm ² (LOQ)	

Tested Item(s)	R	MDI		
Testeu Item(s)	002	003	WIDL	
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	
Hexabromobiphenyl	N.D.	N.D.	5 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)	Re	MDI			
	002	003			
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		
Hexabromodiphenyl ether	N.D.	N.D.	5 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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Tostad Itam(s)	Re	MDI		
Testeu Item(s)	002	003		
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP)	ND	ND	50 mg/kg	
CAS#:84-74-2	N.D.	N.D.	50 mg/kg	
Butyl benzyl phthalate (BBP)	ND	ND	50 ma/ka	
CAS#:85-68-7	N.D.	N.D.	50 mg/kg	
Di-(2-ethylhexyl) phthalate	ND	ND	50 mo/lto	
(DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg	
Diisobutyl phthalate (DIBP)		50 1		
CAS#:84-69-5	N.D.	N.D.	ou mg/kg	

Sample/Part Description

- 001 Mixed test, metal with silvery plating[#]
- 002 White plastic grains
- 003 Transparent solid

Remark: -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-#As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.
-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μ g/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.



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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





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







Report No. A221007626310101 Photo(s) of the sample(s) 001 002 单位:cm CTI 11 12 13 14 15 16 17 18 19 СТІ 10 A221007626310101 A221007626310101 003

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Statement:

- This report is considered invalid without approved signature, special seal and the seal on the perforation; 1.
- 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;

CTI

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- 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 ***

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Appendix

Client Reference Photo (Non-tested sample)



Statement:

The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

