

 Test Report
 No.:
 CANEC24021252903
 Date:
 Oct 09, 2024
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 Client Name:
 GUANGZHOU TIANXIN PHOTOELECTRIC CO.,LTD

 Client Address:
 #15-1
 JINGU ROAD SOUTH,XIUTANG,HUADONG TOWN,HUADU
DISTRICT,GUANGZHOU
 DISTRICT,GUANGZHOU

 Sample Name:
 Ceramic encapsulated LED
The above sample(s) and information were provided by the client.
 DISTRICT,GUANGZHOU

SGS Job No.:GZP24-031628Sample Receiving Date:Sep 24, 2024Testing Period:Sep 24, 2024 ~ Sep 29, 2024

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Thong Ja

Jany Zhong Approved Signatory





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Test Report

No.: CANEC24021252903

Date: Oct 09, 2024

Test Result(s):

Test Part Description

SN ID	Sample No.	SGS Sample ID	Description
SN1	A9	CAN24-0212529-0001.C009	Colorless transparent soft material w/chip
SN2	A10	A10 CAN24-0212529-0001.C010 White sheet w/ silvery sur multi-color do	
SN3	A11	CAN24-0212529-0001.C011	Colorless transparent soft material
SN4	A12	CAN24-0212529-0001.C012	Light grey sheet w/ copper-colored surface & chip, multi-color dot

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A9	A10	A11
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND	ND



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Polybrominated diphenyl ethers (PBDE)1000mg/kg-NDNDNDMonobrominated diphenyl ether (MonoBDE)-mg/kg25NDNDNDDibrominated diphenyl ether (DiBDE)-mg/kg25NDNDNDTribrominated diphenyl ether (TriBDE)-mg/kg25NDNDNDTribrominated diphenyl ether (TriBDE)-mg/kg25NDNDNDTetrabrominated diphenyl ether (TetraBDE)-mg/kg25NDNDNDPentabrominated diphenyl ether (HexaBDE)-mg/kg25NDNDNDHexabrominated diphenyl ether (HexaBDE)-mg/kg25NDNDNDOctabrominated diphenyl ether (HeptaBDE)-mg/kg25NDNDNDNonabrominated diphenyl ether (HexaBDE)-mg/kg25NDNDNDNonabrominated diphenyl ether (HexaBDE)-mg/kg25NDNDNDNonabrominated diphenyl ether (NonaBDE)-mg/kg25NDNDNDDecabrominated diphenyl ether (DecaBDE)-mg/kg25NDNDNDDi-2-Ethyl Hexyl Phthalate (DEHP)1000mg/kg50NDNDNDDibutyl Phthalate (DBP)1000mg/kg50NDNDNDDibutyl Phthalate (DBP)1000mg/kg50NDNDND <th colspan="2">Report No.: CANEC24021252903</th> <th>52903</th> <th colspan="3">Date: Oct 09, 2024</th> <th colspan="2">Page 3 of</th>	Report No.: CANEC24021252903		52903	Date: Oct 09, 2024			Page 3 of	
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Dibutyl Phthalate (DBP) 1000 mg/kg 50 ND ND ND		1000	mg/kg	50	ND	ND	ND	
	yl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND	
	tyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND	
	butyl Phthalate (DIBP)	1000	mg/kg	50	ND	ND	ND	

Test Item(s)	Limit	Unit(s)	MDL	A12
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND



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Test Item(s)	Limit	Unit(s)	MDL	A12
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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.

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Test Report ATTACHMENTS

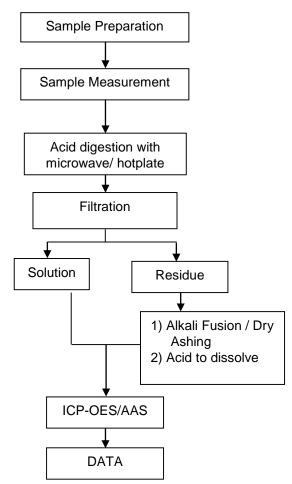
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



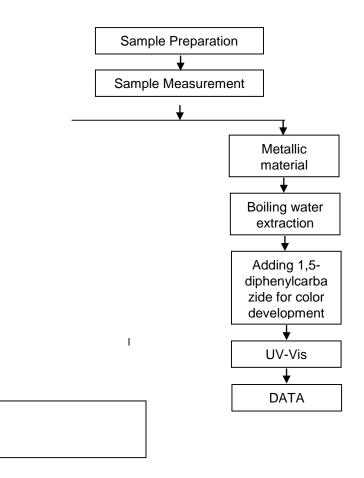


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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PBB/PBDE/Phthalates Testing Flow Chart

