

Test Report

No.: CANEC24005922408

Date: Apr 15, 2024

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Client Name: LUCKY LIGHT ELECTRONICS CO., LTD

Client Address: BUILDING U6, LIANDO U VALLEY CHINA-KOREA (HUIZHOU) INDUSTRIAL PARK
GUANGDONG, CHINA

Sample Name: DISPLAY LED

The above sample(s) and information were provided by the client.

SGS Job No.: SZP24-012663

Sample Receiving Date: Mar 29, 2024

Testing Period: Mar 29, 2024 ~ Apr 11, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
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)	See Results
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium	Pass

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

Allie Chen

Allie Chen
Approved Signatory

scan to see the report



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Standards Technical Services Co., Ltd. Laboratory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A6	CAN24-0059224-0001.C006	Silvery metal pin
SN2	A7	CAN24-0059224-0001.C007	White plastic with black coating(mixed)
SN3	A8	CAN24-0059224-0001.C008	Yellow material
SN4	A9	CAN24-0059224-0001.C009	Black"PCB"with colorless translucent material

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

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, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Unit(s)	MDL	A7	A8	A9
Lead (Pb)	mg/kg	2	ND	ND	ND
Mercury (Hg)	mg/kg	2	ND	ND	ND
Cadmium (Cd)	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND	ND	ND
Polybromobiphenyl (PBB)	mg/kg	-	ND	ND	ND
Monobrominated biphenyl (MonoBB)	mg/kg	5	ND	ND	ND
Dibrominated biphenyl (DiBB)	mg/kg	5	ND	ND	ND
Tribrominated biphenyl (TriBB)	mg/kg	5	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	mg/kg	5	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	mg/kg	5	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	mg/kg	5	ND	ND	ND
Heptabrominated biphenyl (HeptaBB)	mg/kg	5	ND	ND	ND
Octabrominated biphenyl (OctaBB)	mg/kg	5	ND	ND	ND
Nonabrominated biphenyl (NonaBB)	mg/kg	5	ND	ND	ND
Decabrominated biphenyl (DecaBB)	mg/kg	5	ND	ND	ND
Polybromodiphenyl ether(PBDE)	mg/kg	-	ND	ND	ND
Monobrominated diphenyl ether (MonoBDE)	mg/kg	5	ND	ND	ND
Dibrominated diphenyl ether (DiBDE)	mg/kg	5	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	mg/kg	5	ND	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	mg/kg	5	ND	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	mg/kg	5	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	mg/kg	5	ND	ND	ND



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Test Item(s)	Unit(s)	MDL	A7	A8	A9
Heptabrominated diphenyl ether (HeptaBDE)	mg/kg	5	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	mg/kg	5	ND	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	mg/kg	5	ND	ND	ND
Decabrominated diphenyl ether (DecaBDE)	mg/kg	5	ND	ND	ND
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND	ND	ND
Dibutyl phthalate (DBP)	mg/kg	50	ND	ND	ND
Diisobutyl phthalate (DIBP)	mg/kg	50	ND	ND	ND

Notes:

(1) The sample(s) A7 was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 and IEC 62321-7-1:2015, analysis was performed by ICP-OES/AAS and UV-Vis.

Test Item(s)	Limit	Unit(s)	MDL	A6
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)) [▼]	-	µg/cm ²	0.10	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) [▼] =
- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

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.

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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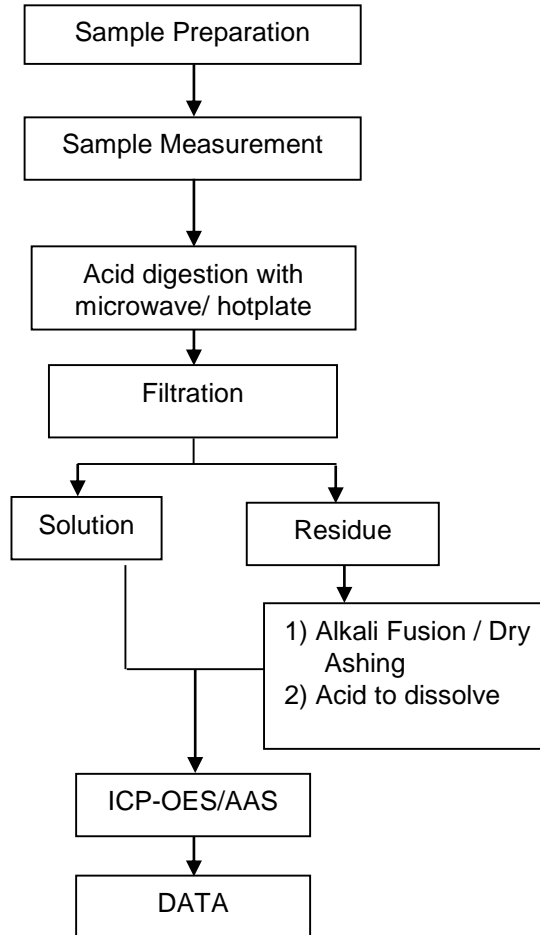
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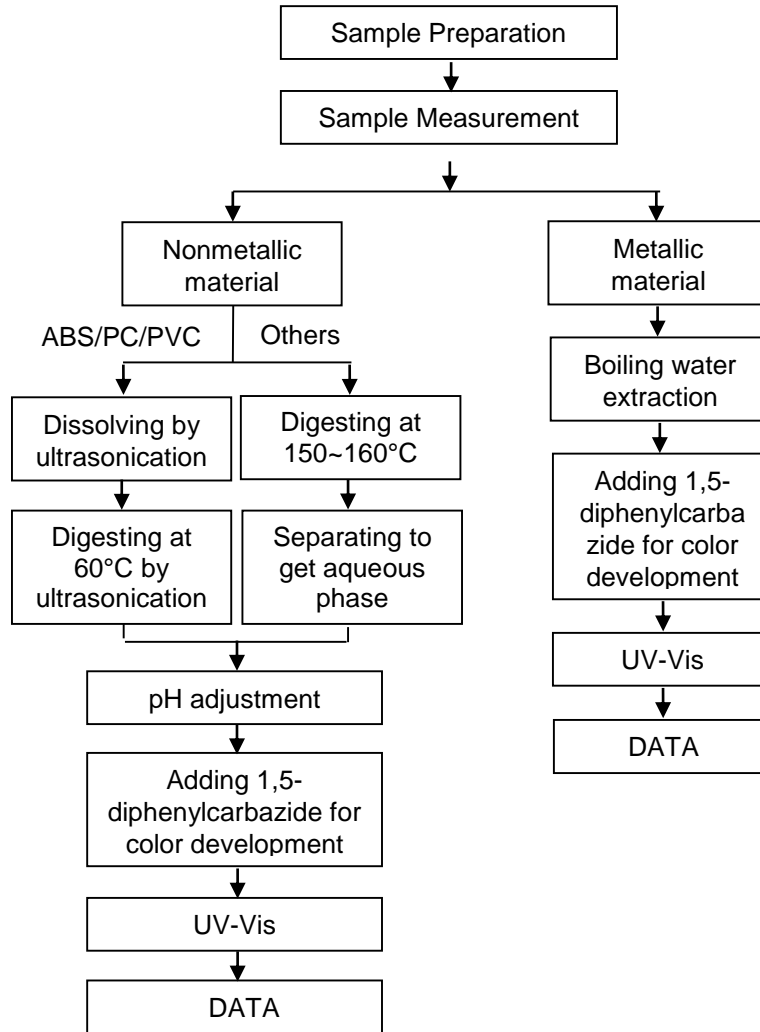
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Elements Testing Flow Chart

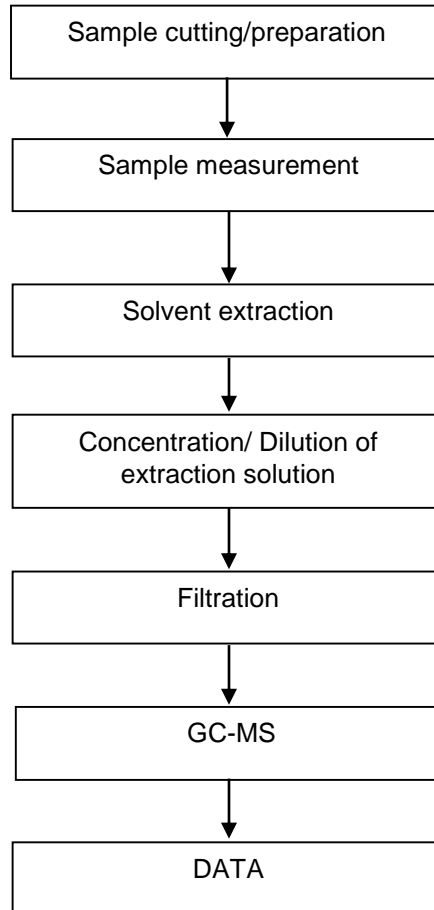
These samples were dissolved totally by pre-conditioning method according to below flow chart.



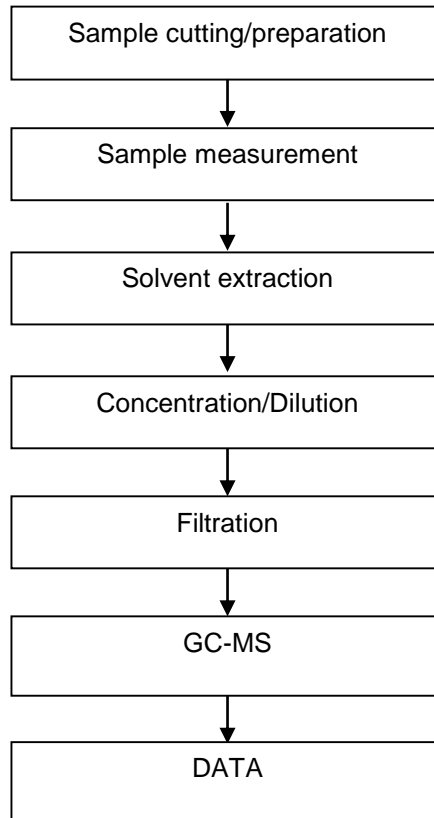
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



PBB/PBDE Testing Flow Chart



Phthalates Testing Flow Chart



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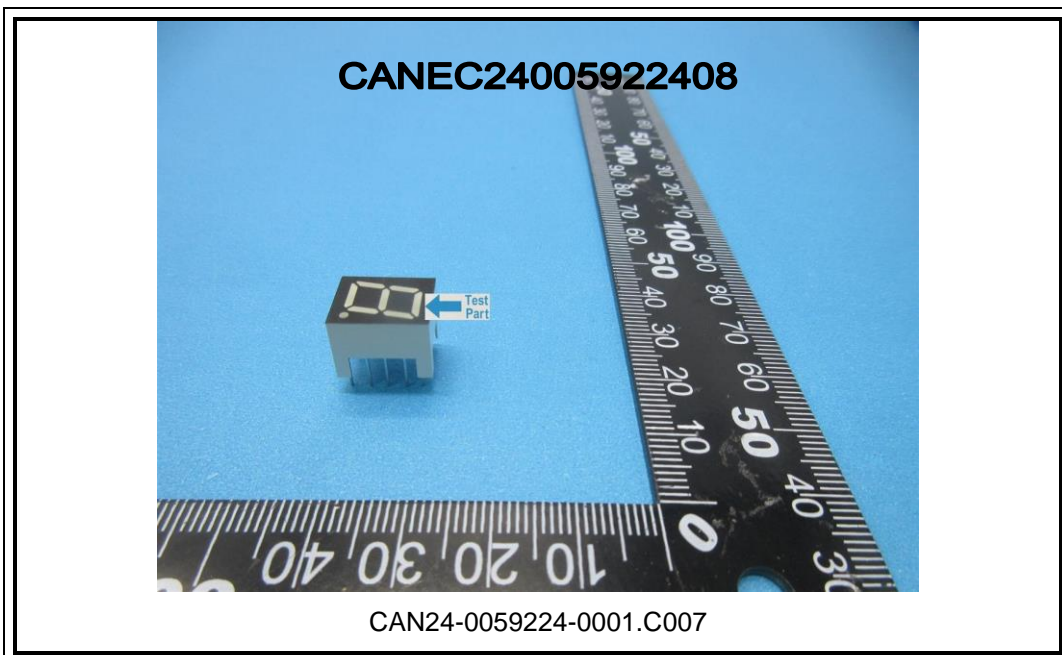
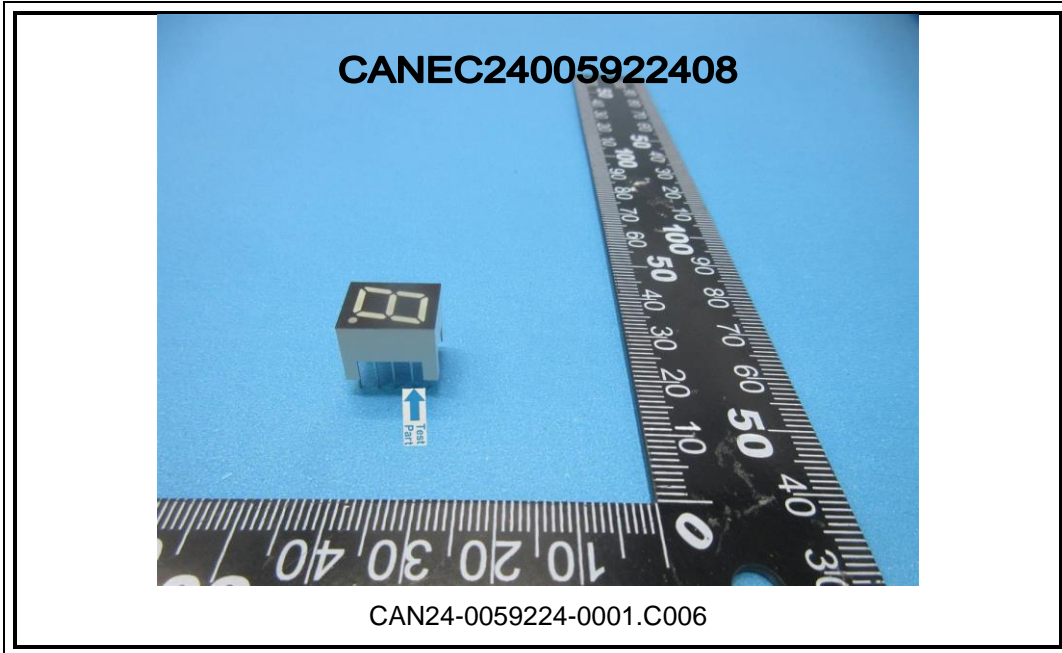
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Sample Photo:



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*** End of Report ***

