

Test Report Date: 09 May 2019 No. CANEC1907722415 Page 1 of 8

LUCKY LIGHT ELECTRONICS CO.,LTD.

No.19 2ND ROAD, QIUFULU COMMUNITY, DALANG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: DISPLAY LED

SGS Job No.: CP19-021876 - SZ

Date of Sample Received: 30 Apr 2019

Testing Period: 30 Apr 2019 - 09 May 2019

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

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

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

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

Zm guan

Approved Signatory

Zuguan



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Test Results:

Test Part Description:

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|---|
| SN1 | CAN19-077224.009 | Silvery metal pin(semi-product) |
| SN2 | CAN19-077224.010 | White plastic w/ black coating(mixed)(semi-product) |
| SN3 | CAN19-077224.011 | Colorless transparent material(semi-product) |
| SN4 | CAN19-077224.012 | Black "PCB"(semi-product) |

Remarks:

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

Elementary Analysis, Flame Retardants & Phthalates

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | <u>Unit</u> | <u>MDL</u> | <u>010</u> | <u>011</u> | <u>012</u> |
|----------------------------|-------------|------------|------------|------------|------------|
| Cadmium (Cd) | mg/kg | 2 | ND | ND | ND |
| Lead (Pb) | mg/kg | 2 | ND | ND | ND |
| Mercury (Hg) | mg/kg | 2 | ND | ND | ND |
| Hexavalent Chromium (CrVI) | mg/kg | 8 | ND | ND | ND |
| Sum of PBBs | mg/kg | - | ND | ND | ND |
| Monobromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Dibromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Tribromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Tetrabromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Pentabromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Hexabromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Heptabromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Octabromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Nonabromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Decabromobiphenyl | mg/kg | 5 | ND | ND | ND |
| Sum of PBDEs | mg/kg | - | ND | ND | ND |
| Monobromodiphenyl ether | mg/kg | 5 | ND | ND | ND |



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|-------------------------------------|---------------------|-------------------|------------|------------|-------------|--|
| Test Item(s) | <u>Unit</u> | <u>MDL</u> | <u>010</u> | <u>011</u> | <u>012</u> | |
| Dibromodiphenyl ether | mg/kg | 5 | ND | ND | ND | |
| Tribromodiphenyl ether | mg/kg | 5 | ND | ND | ND | |
| Tetrabromodiphenyl ether | mg/kg | 5 | ND | ND | ND | |
| Pentabromodiphenyl ether | mg/kg | 5 | ND | ND | ND | |
| Hexabromodiphenyl ether | mg/kg | 5 | ND | ND | ND | |
| Heptabromodiphenyl ether | mg/kg | 5 | ND | ND | ND | |
| Octabromodiphenyl ether | mg/kg | 5 | ND | ND | ND | |
| Nonabromodiphenyl ether | mg/kg | 5 | ND | ND | ND | |
| Decabromodiphenyl ether | mg/kg | 5 | ND | ND | ND | |
| Dibutyl phthalate (DBP) | mg/kg | 50 | ND | ND | ND | |
| Butyl benzyl phthalate (BBP) | mg/kg | 50 | ND | ND | ND | |
| Bis (2-ethylhexyl) phthalate (DEHP) | mg/kg | 50 | ND | ND | ND | |
| Diisobutyl Phthalates (DIBP) | mg/kg | 50 | ND | ND | ND | |

Notes:

(1) IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25

Elementary Analysis

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

| Test Item(s) | <u>Unit</u> | <u>MDL</u> | <u>009</u> |
|-------------------------------|-------------|------------|------------|
| Cadmium (Cd) | mg/kg | 2 | ND |
| Lead (Pb) | mg/kg | 2 | ND |
| Mercury (Hg) | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | ua/cm² | 0.10 | ND |

Notes:

- (1) IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:125863 7,25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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



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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.

Remark: The sample(s) 010 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.



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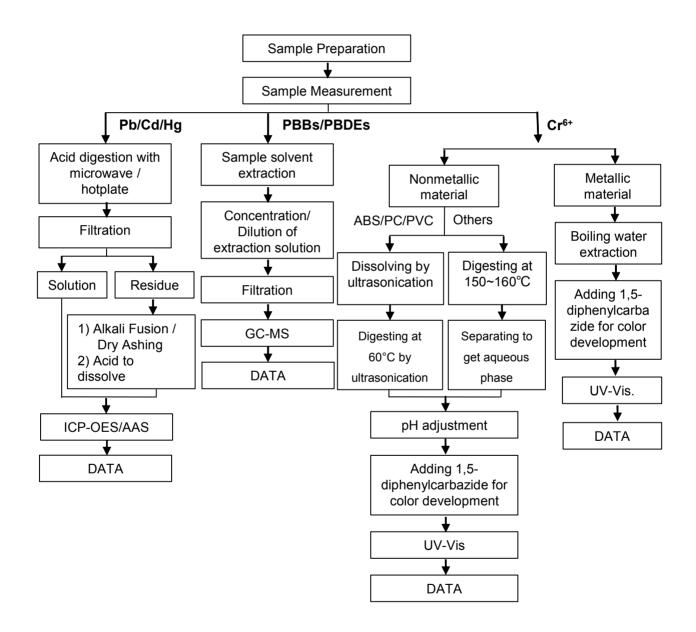
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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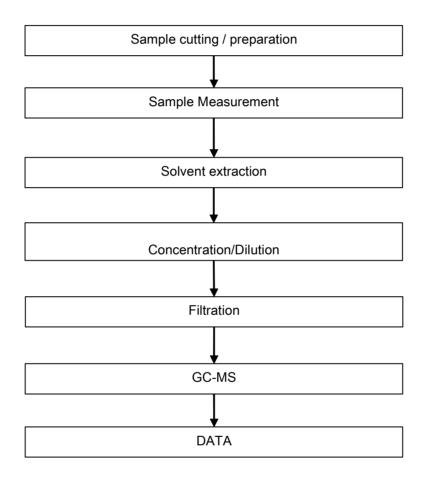
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Phthalates Testing Flow Chart





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Sample photo:







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