



Test Report

No.T52010271530TC

Date: AUG 07, 2020

Page 1 of 6

RUN LIGHT CO.,LTD

The following samples were submitted and identified by/on behalf of the client as:

CHIP LED

Item No. : LED0402, LED0603, LED0805, LED1206

Sample Receiving Date : JUL 20, 2020

Testing Period : JUL 20, 2020 TO AUG 07, 2020



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SGS-CSTC Testing Technology Service Co., Ltd.
Shenzhen Branch Testing Center Hardlines

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No. T52010271530TC

Date: AUG 07, 2020

Page 2 of 6

| Test Requested | | Conclusion |
|----------------|---|------------|
| 1. | European RoHS Directive 2015/863/EU amending Annex II to Directive 2011/65/EU – Certain hazardous substances in the specified specimen(s) as listed | -- |
| | Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) Content analysis by wet chemical | PASS |
| | Phthalate Content | PASS |
| 2. | Halogen Content in the specified specimen(s) as listed | SEE RESULT |
| 3. | Sulfur Content in the specified specimen(s) as listed | SEE RESULT |

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

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



Qu Ping, Kiky
Dept. Manager



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Test Report

No. T52010271530TC

Date: AUG 07, 2020

Page 3 of 6

Results:

1.1 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC 62321-7-2:2017, IEC62321-6:2015

For Lead, Cadmium and Mercury, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Hexavalent Chromium, analysis was performed by Ultraviolet Visible Spectrophotometer (UV-Vis)

For PBBs & PBDEs, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

| Test Item(s) | Result (mg/kg) | MDL (mg/kg) | Permissible Limit (mg/kg) |
|---|----------------|-------------|---------------------------|
| | 1 | | |
| Lead (Pb) | ND | 2 | 1000 |
| Cadmium(Cd) | ND | 2 | 100 |
| Mercury (Hg) | ND | 2 | 1000 |
| Hexavalent Chromium (CrVI) by alkaline extraction | ND | 8 | 1000 |
| Sum of PBBs | ND | -- | 1000 |
| Monobromobiphenyl | ND | 5 | -- |
| Dibromobiphenyl | ND | 5 | -- |
| Tribromobiphenyl | ND | 5 | -- |
| Tetrabromobiphenyl | ND | 5 | -- |
| Pentabromobiphenyl | ND | 5 | -- |
| Hexabromobiphenyl | ND | 5 | -- |
| Heptabromobiphenyl | ND | 5 | -- |
| Octabromobiphenyl | ND | 5 | -- |
| Nonabromobiphenyl | ND | 5 | -- |
| Decabromobiphenyl | ND | 5 | -- |
| Sum of PBDEs | ND | -- | 1000 |
| Monobromodiphenyl ether | ND | 5 | -- |
| Dibromodiphenyl ether | ND | 5 | -- |
| Tribromodiphenyl ether | ND | 5 | -- |
| Tetrabromodiphenyl ether | ND | 5 | -- |
| Pentabromodiphenyl ether | ND | 5 | -- |
| Hexabromodiphenyl ether | ND | 5 | -- |
| Heptabromodiphenyl ether | ND | 5 | -- |
| Octabromodiphenyl ether | ND | 5 | -- |
| Nonabromodiphenyl ether | ND | 5 | -- |
| Decabromodiphenyl ether | ND | 5 | -- |
| Comment | PASS | -- | -- |



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Specimen Description:

- White w/ transparent material, green printing (1206LED)

- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - The result of Hexavalent chromium (Cr(VI)) is deemed to be "ND" since the result of total chromium content is "ND", so the testing of Hexavalent chromium (Cr(VI)) is not requirement.
 - If the Chromium (Cr) content is greater than the MDL, And confirmation test of Hexavalent Chromium (Cr(VI)) is required.
 - The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU.

1.2 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Phthalates Content

Method: With reference to IEC 62321-8:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

| Test Item(s) | CAS No. | Result(s) (mg/kg) | MDL (mg/kg) | Permissible Limit (mg/kg) |
|-------------------------------------|----------|-------------------|----------------|---------------------------------|
| Specimen No. | -- | 1 | | |
| Alias No. | -- | 6 | | |
| Tracing No. | -- | 1 | | |
| Dibutyl Phthalate (DBP) | 84-74-2 | ND | 50 | 1000 |
| Benzylbutyl Phthalate (BBP) | 85-68-7 | ND | 50 | 1000 |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | ND | 50 | 1000 |
| Diisobutyl phthalate (DIBP) | 84-69-5 | ND | 50 | 1000 |

Specimen Description:

- White w/ transparent material, green printing (1206LED)

- Note:
- mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm



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2. Halogen

Test Method : With reference to EN 14582:2016, analysis was performed by IC.

| Test Item(s) | Unit | MDL | 001 |
|---------------|-------|-----|-----|
| Fluorine (F) | mg/kg | 50 | 296 |
| Chlorine (Cl) | mg/kg | 50 | 258 |
| Bromine (Br) | mg/kg | 50 | ND |
| Iodine (I) | mg/kg | 50 | ND |

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|---|
| SN1 | SZX20-018225.001 | White w/ transparent material, green printing (1206LED) |

Remarks :

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

3. Sulfur

Test Method : With reference to EN 14582:2016, analysis was performed by IC.

| Test Item(s) | Unit | MDL | 001 |
|--------------|-------|-----|-----|
| Sulfur (S) | mg/kg | 50 | 272 |

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|---|
| SN1 | SZX20-018225.001 | White w/ transparent material, green printing (1206LED) |

Remarks :

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



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Remark 2: The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012): When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability ($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

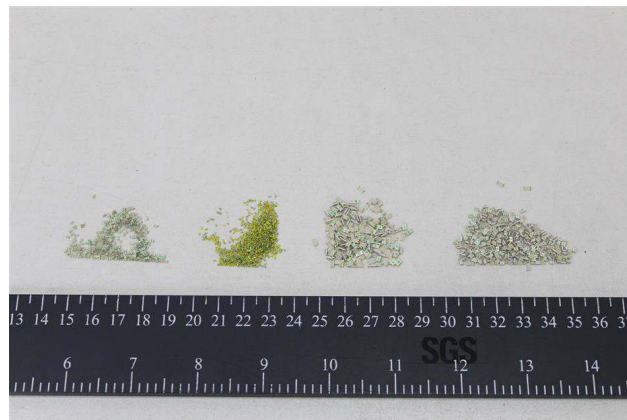
For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$

Sample Photo:



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*** End of Report ***



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