

## Verification Report No.: SZXEC25002933801

Date: Aug 22, 2025

Page 1 of 8

Client Name: SHENZHEN LEDYI LIGHTING CO., LTD.

Client Address: 8TH FLOOR, SKYWORTH DIGITAL BUILDING, SONGBAI ROAD, SHIYAN, BAO'AN DISTRICT, SHENZHEN, 518105 GUANGDONG P.R. CHINA

Sample Name: Flexible LED strip

Tested Basic Model No.: LY-ST2Q120V24-Z

Client Ref. Information: Please see attachments

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

SGS Job No.: SZP25-041629

Sample Receiving Date: Aug 13, 2025

Verification Period: Aug 13, 2025 ~ Aug 22, 2025

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

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

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

### Test Result Summary:

Test Items	Conclusion
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)	Pass

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

Tina

Tina Fan

Approved Signatory

Scan to see the report



FBBF4944



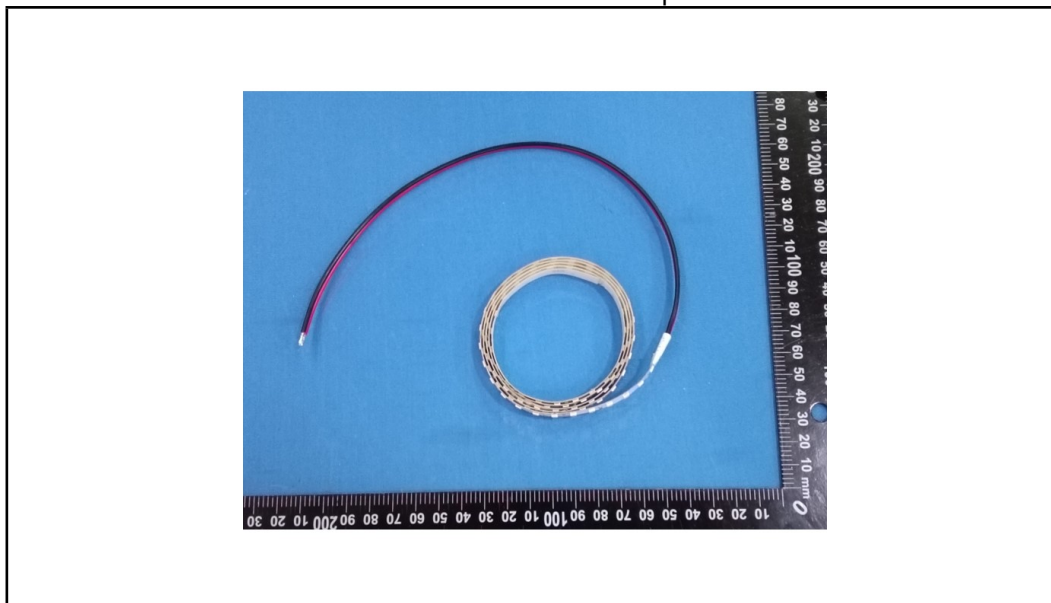
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Photo of Submitted Sample



## Verification Method(s):

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
  - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
  - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.



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**Verification Part Description:**

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX25-0029338-0001.C001	Silvery metal solder
SN2	A2	SZX25-0029338-0001.C002	Red plastic (wire insulation) with black printing
SN3	A3	SZX25-0029338-0001.C003	Red plastic (wire insulation) with black surface
SN4	A4	SZX25-0029338-0001.C004	Silvery metal core wire
SN5	A5	SZX25-0029338-0001.C005	Yellow chip "LED" body
SN6	A6	SZX25-0029338-0001.C006	White plastic heat shrinkable tube with black printing
SN7	A7	SZX25-0029338-0001.C007	Silvery metal solder
SN8	A8	SZX25-0029338-0001.C008	Transparent double side glue
SN9	A9	SZX25-0029338-0001.C009	White "FPC"



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**Verification Result(s):**

(Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	---	BL	BL	---	BL	BL	---	BL
PBDE	---	BL	BL	---	BL	BL	---	BL
DEHP	---	ND	ND	---	BL	BL	---	BL
BBP	---	ND	ND	---	BL	BL	---	BL
DBP	---	ND	ND	---	BL	BL	---	BL
DIBP	---	ND	ND	---	BL	BL	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9
Pb	BL
Hg	BL
Cd	BL
Cr(VI)▼	BL
PBB	BL
PBDE	BL
DEHP	BL
BBP	BL
DBP	BL
DIBP	BL
Conclusion	PASS



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### Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Annex A as below table.

Element	Polymers	Metals	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL = Over Limit, IN (The symbol X marks the region) = Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.

(d) The EDXRF screening test for elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

Test Items	CAS No.
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL = Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Hg	Cd	DEHP	BBP	DBP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBB and PBDE is 100 mg/kg,

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10 µg/cm².

(c) ▼ = Metal sample

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



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Cr(VI) results represent status of the sample at the time of testing.

- (4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/DEHP/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) IEC 62321 series is equivalent to EN 62321 series.

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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**Attachment:**

The EUT (Equipment Under Test) is Flexible LED Strip for illumination purpose.  
LY-STxQyVz-Z

**Details of variables:**

- 1) "LY" represents LEDYI Lighting.
- 2) Second "S" represents LED Strip.
- 3) "Tx" represents the type of LED chips, x: Can be 1, 2, 3...28, 1=type 3030, 2=type 2835, 3=type 3528, 4=type 3014, 5=type 5050, 6=type 5630, 7=type 2216, 8=type 2323, 9=type 3020, 10=type 020, 11=type 2016, 12=type 335, 13=type 3535, 14=type 4014, 15=type 5730, 16=type 4040, 17=type 1808, 18=type 3838, 19=type 6060, 20=type COB, 21=type 2110, 22=type 2010, 23=type 2219, 24=type 0402, 25=type 0502, 26=type 1313, 27=type 1515, 28=type 2121.
- 4) "Qy" represents quantities of LED chips, y: Can be 1, 2, 3, 5, 6, 7, 8, 9, 10, 12, 14, 16, 17, 18, 20, 21, 22, 24, 25, 26, 28, 30, 32, 34, 35, 36, 37, 38, 39, 40, 42, 48, 50, 54, 56, 60, 68, 70, 72, 80, 84, 88, 90, 96, 99, 104, 112, 120, 126, 128, 140, 144, 150, 156, 160, 168, 174, 180, 182, 192, 196, 198, 200, 204, 210, 224, 228, 240, 280, 288, 300, 320, 322, 352, 360, 392, 400, 420, 480, 512, 546, 560, 576, 588, 600, 640, 693, 700, 702, 720, 768, 784, 800, 810, 820, 828, 840, 846, 896, 960, 1120, 1200, 1400, 1920.
- 5) "Vz" represents input voltage, z: Can be 3, 3.2, 3.7, 4.5, 5, 6, 9, 12, 24, 28, 36, 48, 230.
- 6) "Z" represents some special features of led strip, Z: Can be be a letter or the combination of a letter and a number, a=The LED strip can adjust the color temperature, c=The LED strip is with functions of constantcurrent, c1=Red, c2=Green, c3=Blue, c4=Yellow, c5=White, c6=Warm White, c7 =Natural White, c8=RGB, c9=RGBW, c10=RGBCW, c11=means Pink, c12=Orange, c13=Violet.



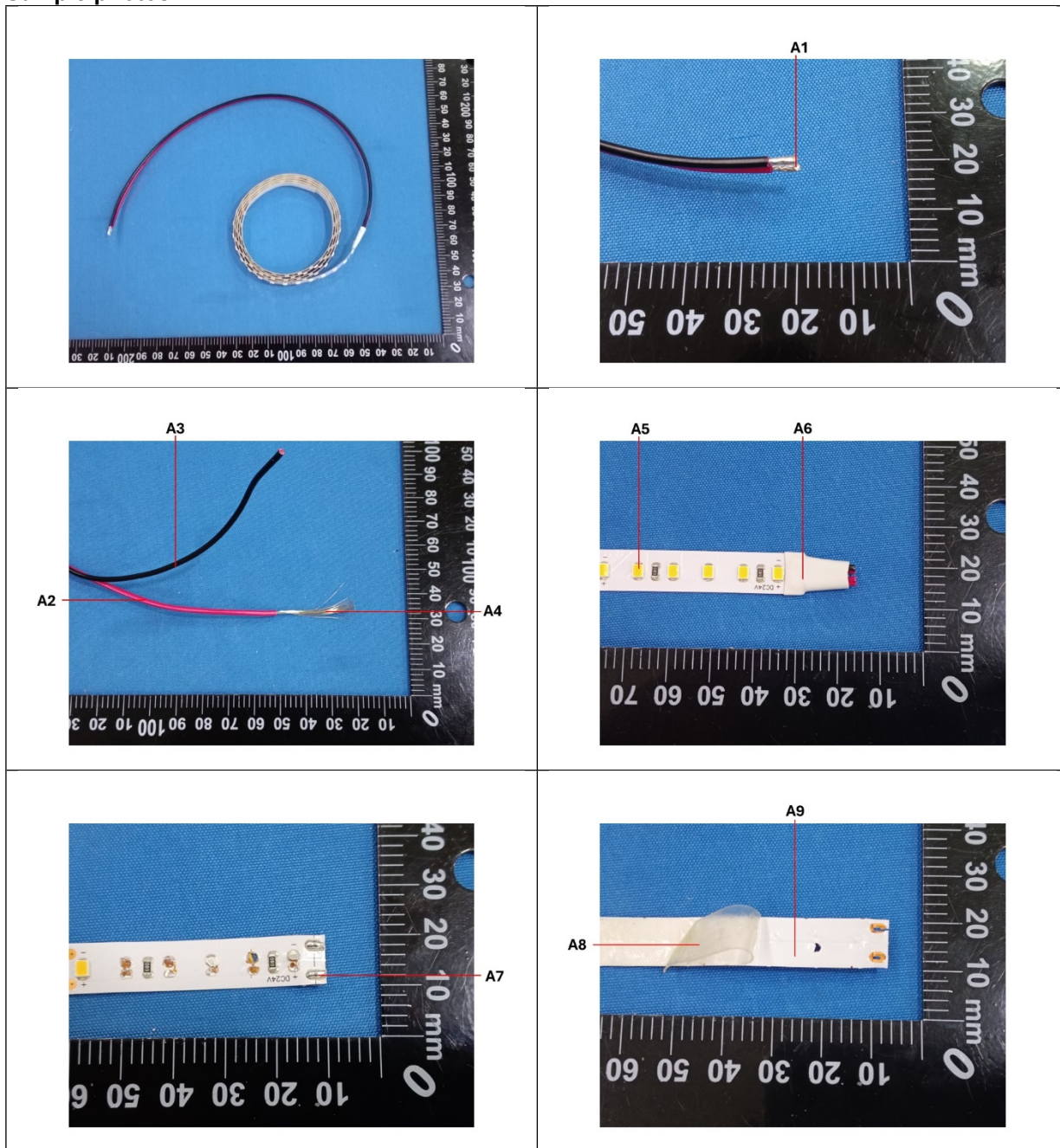
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**Sample photos:**



SGS authenticate the photo on original report only

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