

No.SDHL250601087901FT

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Date: Jul 25, 2025

HUBEN INDONESIA DKI JAKARTA, INDONESIA

Sample Description : LED STRIP 2835-12V-120P

Country of Origin : CHINA

Country of Destination : INDONESIA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : CANHL25015105601

Sample Receiving Date : Jun 21, 2025

Test Performing Date : Jun 24, 2025 to Jul 25, 2025

Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments		
	EU RoHS Directive (EU) 2015/863 amending Annex II to Directive				
	2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium,				
1	Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers	Pass	1		
	(PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate				
	(BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)				
For further details, please refer to the following page(s)					

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

Mario Leurg

Marco Leung
Authorized Signatory



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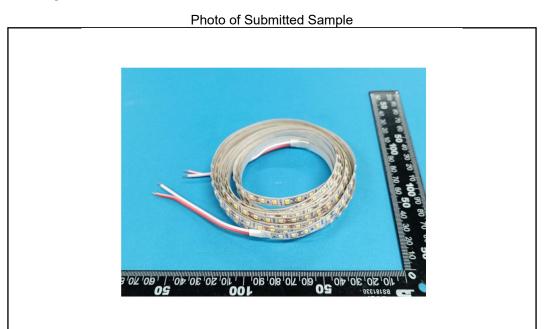
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Verification Method(s):

- 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	A1.3	CAN25-0151056-	Silvery metal wire (solder) (A1 improved					
SINT		0001.C001.C003	sample submitted by 2025-7-21)					
SN2	A2	CAN25-0151056-0001.C002	Red/white plastic (wire insulation)					
SN3	A3	CAN25-0151056-0001.C003	White plastic (wire insulation)					
SN4	A4	CAN25-0151056-0001.C004	Copper-colored metal wire					
SN5	A5	CAN25-0151056-0001.C005	White plastic (heat shrinkable tube) with					
SINO		CAN25-0151056-0001.C005	black printing					
SN6	A6	CAN25-0151056-0001.C006	Transparent adhesive plastic sheet					
SN7	A7	CAN25-0151056-0001.C007	Yellow body (LED)					
SN8	A8	CAN25-0151056-0001.C008	White "FPC"					
SN9	9 A9.3#	CAN25-0151056-	Silvery metal wire (solder) (A9 improved					
Sive	A9.3#	0001.C009.C003	sample submitted by 2025-7-21)					

Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample

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

(((
Test Item(s)	A1.3	A2	A3	A4	A5	A6	A7	A8
Pb	BL							
Hg	BL							
Cd	BL							
Cr(VI)▼	BL							
PBB		BL	BL		BL	BL	BL	BL
PBDE		BL	BL		BL	BL	BL	BL
DEHP		ND	ND		ND	ND	ND	ND
BBP		ND	ND		ND	ND	ND	ND
DBP		ND	ND		ND	ND	ND	ND
DIBP		ND	ND		ND	ND	ND	ND
Conclusion	PASS							

Test Item(s)	A9.3#
Pb	BL
Hg	BL
Cd	BL
Cr(VI)▼	BL
PBB	
PBDE	
DEHP	
BBP	
DBP	
DIBP	
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≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>		
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>		
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>		
Br	BL ≤ (300-3σ)< X	Not applicable	BL ≤ (250-3σ)< X		
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< 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						
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



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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.

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- (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.
- (6) #=According to the declaration from applicant, the materials of No.A9.3 are the same as those in No.A1.3, and its results for support the results of No.A9.3. The applicant will take the responsibility of all discrepancy and risk.

The location of performance of the laboratory activities: A. No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong; B. Room 101, Building 3, No.1501, Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong

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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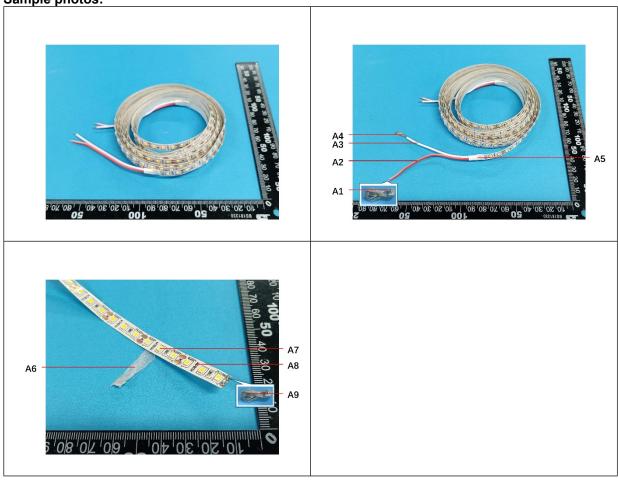


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Sample photos:



Remark: This test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.



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Note: According to client's statements the tested samples are identical to the products shown in the product photos.



End of Report



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