



**Technical Report No. 68.140 Rev.001 Dated
2013-03-29**

Client: Name: Ledpro Co Ltd
Address: Bldg. 1, Guanlong Industrial Zone, Xili, 518055 Shenzhen,
PEOPLE'S REPUBLIC OF CHINA
Contact Person: Mr. Guo

Manufacturing Manufacturer's name: Ledpro Co., Ltd place:
Address: Bldg. 1, Guanlong Industrial Zone, Xili, 518055 Shenzhen,
PEOPLE'S REPUBLIC OF CHINA
Factory's name: Same as manufacturer
Address: Same as manufacturer

Test subject: Product: LED Neon Flex,
Series-3,
Series-4,
Series-5, RGB series, Digital series

Test specification: 1, Needle flame test according to clause 13.3.1 of EN 60598-1:2008+A1:2009;
2, Glow-wire test according to clause 13.3.2 of EN 60598-1:2008+A1:2009.

Purpose of examination:

- inspection according to specified requirements to realize the conformity with the Produktsicherheitsgesetz –ProdSG, version Nov 08, 2011
- inspection according to specified requirements to realize the observance of the protection aims of the following EC directives:
 - LVD directive 2006/95/EC
 - EMC directive 2004/108/EC
- Test according to the test specification.

Test result: The test results show that the presented products are in compliance with the test specification.

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1 Description of the test subject

1.1 Function

- Manufacturer's specification for intended use:
The materials used in LED light.

1.2 Consideration of the foreseeable misuse

- Not applicable
 Covered through the applied standard
 Covered by the following comment
 Covered by attached risk analysis

1.3 Technical Data

Nil.

2 Order

2.1 Date of Purchase Order, Customer's Reference

2013-03-19

2.2 Receipt of Test Sample, Location

20pcs samples were received on 2013-03-20, TEC Department, Shenzhen

2.3 Date of Testing

2013-03-20 to 2013-03-26

2.4 Location of Testing

TEC Department, Shenzhen

2.5 Points of Non-compliance or Exceptions of the Test Procedure

Nil.

3 Test results

3.1 Needle flame test (clause 13.3.1 of EN 60598-1)

Test condition

The test process is as follows:

- a) The test specimens, the wooden board and the tissue paper were conditioned 24 h in an atmosphere having a temperature between 15 °C and 35 °C and a relative humidity between 45 % and 75 % before starting the test.
- b) A piece of flat smooth wooden board, approximately 10 mm thick covered in close contact with a single layer of wrapping tissue, is positioned at a distance of 200 mm ± 5 mm below the place where the needle-flame is applied to the test specimen. Wrapping tissue as specified in 4.215 of ISO 4046-4 is a soft and strong, lightweight wrapping tissue 12 g/m² to 30 g/m².
- c) Mounted the specimen, maintained an 8 mm spacing between the centre of the top of the burner and the remaining portion of the test specimen.
- d) The burner was tilted up to 45° from the vertical, and the test flame was applied to the specimen for 10 s at the point where the highest temperatures are likely to occur.

Test Result: Pass

Model No.	Applying needle flame time (s)	Duration of buring (s) (after 10s needle flame)	Observation	Result
Mini series 10	10	0	No buring drop	Pass
Mini series-11	10	1.3	No buring drop	Pass
Series-3 Flat	10	0.9	No buring drop	Pass
Series-3 Dome	10	1.6	No buring drop	Pass
Series-4	10	0	No buring drop	Pass
Series-F05	10	0	No buring drop	Pass
Series-F07	10	0.9	No buring drop	Pass
Series-F16	10	2	No buring drop	Pass
Series-F17	10	2	No buring drop	Pass

3.2 Glow-wire test (clause 13.3.2 of EN 60598-1)

Test condition

- a) The wooden board and the tissue paper were conditioned 24 h in an atmosphere having a temperature between 15 °C and 35 °C and a relative humidity between 45 % and 75 % before starting the test.
- b) A piece of flat smooth wooden board, approximately 10 mm thick covered in close contact with a single layer of wrapping tissue, is positioned at a distance of 200 mm ± 5 mm below the place where the glow-wire is applied to the test specimen. Wrapping tissue as specified in 4.215 of ISO 4046-4 is a soft and strong, lightweight wrapping tissue 12 g/m² to 30 g/m².
- c) The specimen was mounted so that the planar area of the surface was vertical and the tip of the glow-wire was applied to the centre of the planar area of the surface.
- d) The glow-wire was heated to the specified temperature (650 °C), the tip of the glow-wire was then brought slowly into contact with the test specimen for 30 s.
- e) The penetration of the tip of the glow-wire into and through the test specimen was limited to 7 mm ± 0,5 mm.

Test Result: Pass

Model No.	Applying glow-wire time (s)	Duration of burning (s) (after 30s glow-wire)	Observation	Result
Mini series 10	30	0	No burning and molten drop	Pass
Mini series-11	30	0	No burning and molten drop	Pass
Series-3 Flat	30	0	No burning and molten drop	Pass
Series-3 Dome	30	0	No burning and molten drop	Pass
Series-4	30	0	No burning and molten drop	Pass
Series--F05	30	0	No burning and molten drop	Pass
Series--F07	30	0	No burning and molten drop	Pass
Series-F16	30	0	No burning and molten drop	Pass
Series-F17	30	0	No burning and molten drop	Pass



4 Remark

4.1 Annex 1: photo document.

5 Documentation

Nil.

6 Summary

The test specification is met.

**Jiangsu TÜV Product Service Ltd. Shenzhen Branch
TÜV SÜD Group**

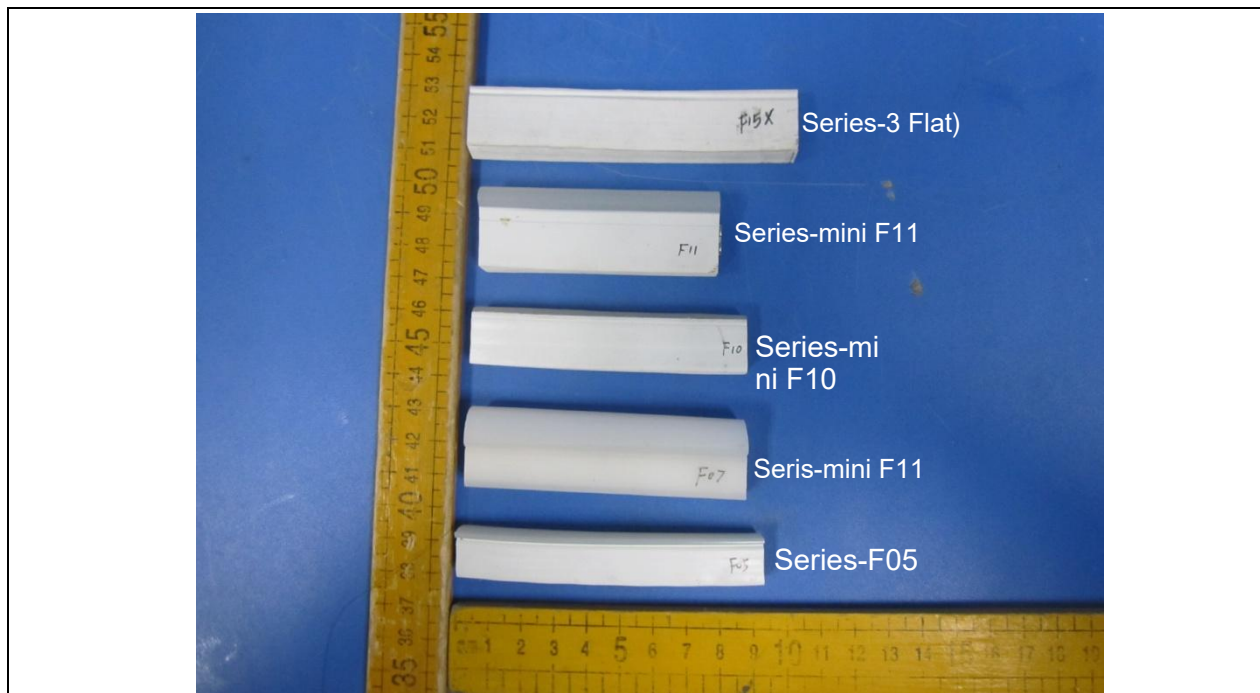
Engineer: Sunny Yan
Sunny Yan
Project Handler



Technical Report checked: Taylor Yao
Taylor Yao
Designated Reviewer

Annex 1: Photo document

Details of: Outlook view



Details of: Outlook view

