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## Technical Report No. 68.140.13.068.02

Dated 2013-09-23

Client: Name: rotec Einkauf GmbH  
Address: Carl-Zeiss-Str. 15 28857 Syke

Manufacturing place: XXX

Test subject: Product: VARDAflex Neon; VARDAflex Outdoor  
Type: 8623X, 8624X, 8603X, 86036, 8601X,  
86016, 8605X, [for VARDAflex Neon];  
867X6, 869XX [for VARDAflex Outdoor]

Test specification: 1. Needle flame test according to clause 13.3.1 of EN 60598-1:2008+A11:2009;  
2. Glow-wire test according to clause 13.3.2 of EN 60598-1:2008+A11:2009.

Purpose of examination:  Inspection according to the Geräte- und Produktsicherheitsgesetz – ProdSG,  
version November 08, 2011  
 Inspection according to the observance of the protection aims of the following  
EC directives:  
e.g. 2006/95/EC  
 Test according to the test specification

Test result: The test results show that the presented product is in compliance with the speci-  
fied requirements.

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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.

Manufacturer's specification for predictive misuse:  
*No restrictions provided.*

### 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

20 samples were received on 2013-03-20; EnE Department, Shenzhen

### 2.3 Date of Testing

2013-03-20 to 2013-03-26

### 2.4 Location of Testing

6/F, H Hall, Culture Creative Park, No. 4001, Fuqiang Road, Futian District, Shenzhen Guangdong,  
P. R. China

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

None



### 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/m<sup>2</sup> to 30 g/m<sup>2</sup>.
- 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:

Model No.	Applying needle flame time (s)	Duration of buring (s) (after 10s needle flame)	Observation	Result
8623X	10	0	No buring drop	Pass
8624X	10	1.3	No buring drop	Pass
8603X, 86036	10	0.9	No buring drop	Pass
8601X, 86016	10	1.6	No buring drop	Pass
8605X	10	0	No buring drop	Pass
867X6	10	2	No buring drop	Pass
869XX	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  $\pm$  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/m<sup>2</sup> to 30 g/m<sup>2</sup>.
- 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  $\pm$  0,5 mm.

Test Result: Pass

Model No.	Applying glow-wire time (s)	Duration of buring (s) (after 30s glow-wire)	Observation	Result
8623X	30	0	No buring and molten drop	Pass
8624X	30	0	No buring and molten drop	Pass
8603X, 86036	30	0	No buring and molten drop	Pass
8601X, 86016	30	0	No buring and molten drop	Pass
8605X	30	0	No buring and molten drop	Pass
867X6	30	0	No buring and molten drop	Pass
869XX	30	0	No buring and molten drop	Pass

### 3.3 Annex 1: photo document



**4 Documentation**

Nil

**5 Summary**

The test specifications are met.

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

**Engineer:**

*Sadie Jiang*  
Sadie Jiang  
Project Handler

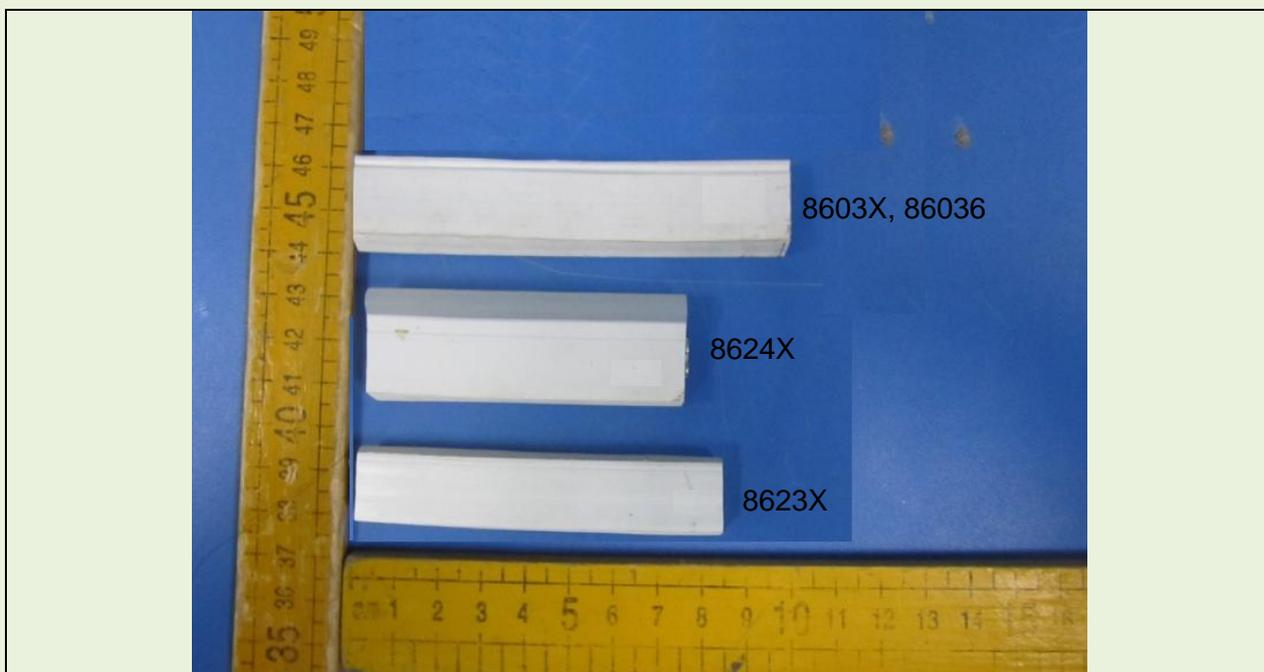
**Technical Report checked:**



*David Zhao*  
David Zhao  
Designated Reviewer

### Annex 1: photo document

Details of: Outlook view



Details of: Outlook view

