



# TEST REPORT

## No. 20/P043

Job No.: 41500028

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**Name of test:** Determination of flammability class of construction products

**Material/product/construction:** Elastic mesh fabric made of PPV fiber with flame retardant

**Sponsor:** LANEX a.s.  
Hlučinská 96/1  
747 23 Bolatice  
Czech Republic

**Manufacturer:** LANEX a.s.  
Hlučinská 96/1  
747 23 Bolatice  
Czech Republic

**Test specimens delivery date:** 28<sup>th</sup> November 2019  
**Workplace:** Fire technical laboratory  
**Location:** Pražská 16, Praha 10 – Hostivař  
**Date of test:** 11<sup>th</sup> February 2020  
**Date of issue:** 13<sup>th</sup> February 2020



Vít Slaboch  
technical manager and  
head of laboratory

## 1. Test assignment

The test has been done on the base of order No. 4500095382 issued on 28<sup>th</sup> November 2019.

## 2. Test methods

DIN 4102-1:1998 Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests. (Baustoffklasse B2)

## 3. Test specimens

The test specimens were delivered by manufacturer. Marking of the test specimens in laboratory: 20/P043/1-10.

Composition: PPV fiber with flame retardant

Appearance: Black elastic mesh. Thickness 2 to 4 mm, mass per unit area 200 to 450 g/m<sup>2</sup>. Face side and back side are identical.

## 4. Test equipment

- 1) Test device according to DIN 4102-1, class B2 (Reg. No. 746)
- 2) Yardstick (Reg. No. 148)
- 3) Digital stop watch (Reg. No. 4)
- 4) Metallic gauge 20 mm (Reg. No. 73)
- 5) Thermometer / relative humidity meter (Reg. No. 74)
- 6) Digital anemometer (Reg. No. 67)
- 7) AD converter (Reg. No. 45)
- 8) Weighing scale (Reg. No. 155)
- 9) Metallic gauge 10 mm (Reg. No. 77)

## 5. Test results and conclusion

Conditioning: 14 days according to DIN 50014-23/50-2

Testing conditions in laboratory: T = 21 °C

relative humidity RH = 25 %

<b>SURFACE FLAME ATTACK</b>					
<b>Test specimen No.:</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Time to ignition [ s ]:</b>	(-)	(-)	(-)	(-)	(-)
<b>Reaching of mark [ s ]:</b>	(-)	(-)	(-)	(-)	(-)
<b>Afterflame time[ s ]:</b>	0	0	0	0	0
<b>Maximum height of flame [mm]:</b>	(-)	(-)	(-)	(-)	(-)
<b>Afterglow time [s]:</b>	(-)	(-)	(-)	(-)	(-)
<b>Burning time of flaming droplets[s]:</b>	(-)	(-)	(-)	(-)	(-)
<b>EDGE FLAME ATTACK</b>					
<b>Sample No.:</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Time to ignition [ s ]:</b>	(-)	(-)	(-)	(-)	(-)
<b>Reaching of mark [ s ]:</b>	(-)	(-)	(-)	(-)	(-)
<b>Afterflame time[ s ]:</b>	0	0	0	0	0
<b>Maximum height of flame [mm]:</b>	(-)	(-)	(-)	(-)	(-)
<b>Afterglow time [s]:</b>	(-)	(-)	(-)	(-)	(-)
<b>Burning time of flaming droplets[s]:</b>	(-)	(-)	(-)	(-)	(-)

Annotation: (-) = data not determined



## Conclusion:

The tested sample of *Elastic mesh fabric made of PPV fiber with flame retardant* **does comply** with requirements given in the standard DIN 4102 – 1 for classification:

**DIN 4102-B2.**

## 6. Measurement uncertainty

Expanded measurement uncertainty of length is  $\pm 1$  mm. Expanded measurement uncertainty of time is  $\pm 0,5$  s. Mentioned expanded uncertainties are obtained by multiplying the standard uncertainties by a coverage factor  $k=2$ , which corresponded to a level of confidence of 95 %. Standard uncertainties have been determined in accordance with document „EA 4/02“.

## 7. Declaration

The test results relate to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product of use. The results of tests are concerned only with the subject of testing. The test report shall be reproduced in full only.

Measured by: Vít Slaboch

Test report prepared by: Vít Slaboch

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END OF TEST REPORT

