

# **CENTRE FOR TEXTILE SCIENCE AND ENGINEERING**

DEPARTMENT OF MATERIALS, TEXTILES AND CHEMICAL ENGINEERING

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# TEST REPORT 18-0750-02

Translation of test report 18-0750-01 dated 13/07/2018

### Samples received :

Name	Date of receipt
Flat needlepunched carpet with 100% polypropylene wear layer with	22/06/2018
impregnation based on latex SBR	
Commercial reference: Expostyle, colour: green	
Production date : 19/06/2018	
OF1810720 mother bobbin: 180144368 daughter bobbin: 180144637	

### Aim of the test :

Determination of the fire behaviour

### Test conditions :

# Small flame testStandard:ISO 11925-2 (2010 + AC 2011)\*Method:The use surface of a vertically put specimen placed on a fibre cement board (loose<br/>laid) is ignited by a propane gas flame. Under condition of a surface flame attack<br/>with 15 s exposure time, there shall be no flame spread in excess of 150 mm<br/>vertically from the point of the test flame within 20 s from the time application.<br/>If the boundary line is not reached within 20 s, the sample meets the requirements<br/>for the class E<sub>fl</sub>.Number of tests:3 lengthwise and 3 crosswise<br/>23 ± 2 °C and 50 ± 5 % R.H.

The test results only apply to materials that correspond to the tested sample. Forgery will be legally prosecuted, just like partial reproduction without prior written permission . Tests that are marked \*are accredited. Advices and interpretations are not covered by the accreditation.



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Fire Behaviour	
Standard:	EN ISO 9239-1 (2010)*
Method:	Before the test the samples are <b>not cleaned</b> .
	A floorcovering is put on (loose laid) a fibre cement board (according to EN
	13238) . During the test, the specimen is irradiated by a gas radiator at an angle of
	30°. A small flame is used to ignite the specimen. The specimen is ignited during
	10 minutes. In case of inflammable specimens, the test lasts until the flame is
	extinguished, but 30 minutes at the most. The criterion is the burned length, from
	which the critical radiant flux is deduced using a calibration curve.
Number of tests:	4
Conditioning	23 ± 2 °C and 50 ± 5 % R.H.
samples:	

The tests were finished in week 28/2018

### **OBTAINED RESULTS**

### Small flame test

Ignition time: 15 s

### Lengthwise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	>60	-	no
2	16	-	no
3	>60	-	no

### Crosswise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	>60	-	no
2	54	-	no
3	>60	-	no

### **Fire behaviour**

Specimen number	1 Length	2 Width	3 Length	4 Length	Average Specimens 1,3,4
Flame spread after 10 min (mm)	0	0	0	0	
Flame spread after 20 min (mm)	0	0	0	0	
Flame spread after 30 min (mm)	0	0	0	0	
Flame spread at extinction (mm)	0	0	0	0	
Flame time	12min 0s	12min 0s	12min 0s	12min 0s	
Critical heat flux CHF at extinction (kW/m <sup>2</sup> )	11.1	11.1	11.1	11.1	≥11
Total smoke production at end of test (%.min)	13	8	8	8	9

**Didier Van Daele** Head of Floor covering and Fire Tests

Prof. Dr. Paul KIEKENS, dr. h. c. Director

# ENCLOSURE TO REPORT 18-0750-02

### Classification according to EN 13501 –1 (2007 + A1: 2009)\*

Classification	EN ISO 11925-2 (ignition time = 15 s)		
B fl	$Fs \le 150 \text{ mm}$ in 20 s	Critical flux $\ge 8.0 \text{ kW/m}^2$	x
C fl	Fs ≤ 150 mm in 20 s	Critical flux $\ge$ 4.5 kW/m <sup>2</sup>	
D fl	$Fs \le 150 \text{ mm}$ in 20 s	Critical flux $\ge$ 3.0 kW/m <sup>2</sup>	
Efl	Fs ≤ 150 mm in 20 s	No demand	
F fl	No demand	No demand	

# Additional classification smoke development according to EN 13501-1 (2007 + A1:2009)\*

		CLASS
Smoke development ≤ 750%.min	s1	X
Smoke development > 750%.min	s2	