

CENTRE FOR TEXTILE SCIENCE AND ENGINEERING

DEPARTMENT OF MATERIALS, TEXTILES AND CHEMICAL ENGINEERING

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TEST REPORT 18-0078-03 Translation of test report 18-0078-02 from 06-03-2018

Samples received :

Name	Date of receipt
Flat-needled carpet with 100% polypropylene wear layer and fire-resis	stant precoat 17/01/2018
Commercial reference: EXPOCOLOR	
OF1724371 mother bobbin: 180001509 daughter bobbin: 1800	05490
Production date : 09/01/2018	

Aim of the test :

Determination of the fire behaviour

Test conditions :

Method:	ISO 11925-2 (2010 + AC 2011)* The use surface of a vertically put specimen placed on a fibre cement board (loose laid) is ignited by a propane gas flame. Under condition of a surface flame attack with 15 s exposure time, there shall be no flame spread in excess of 150 mm vertically from the point of the test flame within 20 s from the time application. If the boundary line is not reached within 20 s, the sample meets the requirements
Number of tests:	for the class E_{fl} .
Conditioning	3 lengthwise and 3 crosswise
samples:	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 not cleaned .
	A floorcovering is put on (loose laid) a fibre cement board. 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 05/2018.

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 s	-	no
2	> 60 s	-	no
3	> 60 s	-	no

Crosswise

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

Fire Behaviour

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	70	80	140	250	
Flame spread after 20 min (mm)	70	80	140	330	
Flame spread after 30 min (mm)	70	80	140	330	
Flame spread at extinction (mm)	70	80	140	330	
Flame time	12min 0s	12min 0s	12min 0s	14min 54s	
Critical heat flux CHF at extinction (kW/m ²)	10.9	10.8	10.1	6.7	9.2
Total smoke production at end of test (%.min)	11	21	46	24	30

Didier Van Daele Head of Floor covering and Fire Tests Prof. Dr. Paul KIEKENS, dr. h. c. Director

ENCLOSURE TO REPORT 18-0078-03

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

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)	CLASS
B fl	$Fs \le 150 \text{ mm}$ in 20 s	Critical flux \ge 8.0 kW/m ²	x
C fl	Fs ≤ 150 mm in 20 s	Critical flux \ge 4.5 kW/m ²	
D fl	Fs ≤ 150 mm in 20 s	Critical flux \ge 3.0 kW/m ²	
Efl	Fs ≤ 150 mm in 20 s	No demand	
F fi	No demand	No demand	

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

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