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date
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TEST REPORT 16-0316-02

Translation of test report 16-0316-01 from 19 April 2016

Samples received :

<u>Name</u>	<u>Date of receipt</u>
Flat needle-punched tile, wear layer 100% polypropylene with flame retardant SBR latex impregnation and flame retardant underlayer based on polyolefins. Commercial reference: Albatros Colour : anthracite Production date : 17/03/2016 OF = 1606192 Bobbin = 160080061	22/03/2016

Aim of the test :

Determination of the fire behaviour

Test conditions :

Small flame test

Standard: **ISO 11925-2 (2010 + AC 2011)***

Method: 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 for the class E_{fl}.

Number of tests: 3 lengthwise and 3 crosswise

Measurement uncertainty: The relative reproducibility for 3 repetitions is 27.2% for the burning time.

Conditioning: 23 ± 2 °C and 50 ± 5 % R.H.

samples:

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.

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

Measurement uncertainty: The relative reproducibility for 3 repetitions is 13% for the flux, 59% for the smoke development.

Conditioning samples: 23 ± 2 °C and 50 ± 5 % R.H.

The tests were performed in week 13-14/2016.

OBTAINED RESULTS

Small flame test

Ignition time : 15 s

Production

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

Transverse

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

Fire behaviour

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	250	255	350	300	
Flame spread after 20 min (mm)	250	255	440	430	
Flame spread after 30 min (mm)	250	255	530	500	
Flame spread at extinction (mm)	250	255	530	500	
Flame time	14min 18s	14min 48s	30min 0s	30min 0s	
Critical heat flux CHF at extinction (kW/m ²)	8.5	8.4	3.4	3.8	5.2
Total smoke production at end of test (%.min)	389	310	443	345	365

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ENCLOSURE TO REPORT 16-0316-02

*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 _{fi}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m ²	
C _{fi}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m ²	X
D _{fi}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m ²	
E _{fi}	F _s ≤ 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	X
Smoke development > 750%.min	s2	