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report

TEST REPORT 12-1016-03

Supplement to test report 12-1016 dated 29 January 2013

Samples received :

Name	Date of receipt
Flat needlefelt with user layer of 100% polyester with a latex SBR based impregnation + vinyl polyacetate + fire retardant Commercial reference : CarpetWalk Production date: 04/12/2012; Mother bobbin: 120127573; Daughter bobbin: 120210344; OF: 1219225	10/12/2012

Aim of the test :

Determination of fire behaviour

Test conditions :

Small flame test

Standard: **ISO 11925-2 (2002)***

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}.

Before the test the samples are cleaned with a spray-extraction machine and then dried.

Number of tests: 3 lengthwise and 3 crosswise

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

samples:

Fire Behaviour

Standard:

EN ISO 9239-1 (2010)*

Method:

Before the test the samples are **not cleaned** with a spray-extraction machine. 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 15.6% for the flux, 84.5% for the smoke development.

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

The tests were finished in week 5/2013.

OBTAINED RESULTS

ISO 11925-2 (2002)

- **Lengthwise**

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

- **Crosswise**

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

Classification

It can be deduced from the results that the quality **CarpetWalk** meets the requirements for the class **E_{fl}**

EN ISO 9239-1 (2010)*

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	80	70	90	120	
Flame spread after 20 min (mm)	80	155	210	150	
Flame spread after 30 min (mm)	80	155	325	150	
Flame spread at extinction (mm)	80	155	325	150	
Flame time	12min 0s	16min 0s	30min 0s	13min 45s	
Critical heat flux CHF at extinction (kW/m ²)	10.9	10.0	6.8	10.1	10.0
Total smoke production at end of test (%.min)	9	18	39	16	24



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Director

ENCLOSURE TO REPORT 12-1016-03

*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}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m ²	X
C _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m ²	
D _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m ²	
E _{fl}	F _s ≤ 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	