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Date

27/11/13

TEST REPORT 13-795

Translation

Samples received :

Needlefelt with user layer of 100% polypropylene with loaded foam coating

Commercial reference: **Texway**, Color: grey

Production date: 27/09/2013, OF: 1314830, Bobbin 130163881

Received on 07/10/2013

Aim of the test :

Determination of fire behaviour

Test conditions :

Standard:

ISO 11925-2 (2002)*

Method:

The use surface of a vertically put specimen has been placed together with an underlay on an Eflex plate (**loose laid**), is ignited by a propane gas flame. Under condition of 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

The relative reproducibility for 3 repetitions is 27.2% for the flux.

uncertainty:

Conditioning 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.

The department of Textiles is Notified laboratory n°1611 for the European Products Regulation N° 305/2011.

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 (Eflex). 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

The relative reproducibility for 3 repetitions is 15.6% for the flux, 84.5% for the smoke development.

uncertainty:

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

The tests were performed in week 43-45/2013

OBTAINED RESULTS

ISO 11925-2 (2002)

- **Lengthwise**

Sample	Afterburning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	31	-	No
2	22	-	No
3	>60	-	No

- **Crosswise**

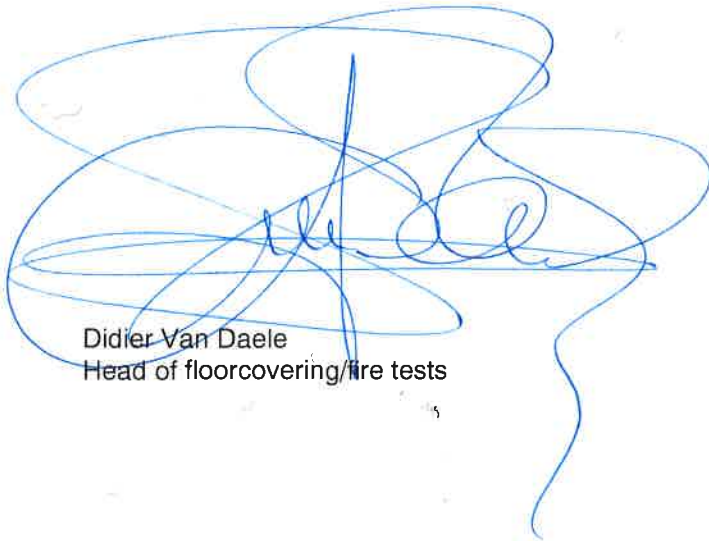
Sample	Afterburning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	26	-	No
2	>60	-	No
3	28	-	No

Classification

It can be deduced from the results that the quality **Texway** 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)	0	170	420	205	
Flame spread after 20 min (mm)	0	170	570	205	
Flame spread after 30 min (mm)	0	170	575	205	
Flame spread at extinction (mm)	0	170	575	205	
Flame time	12min 0s	18min 45s	30min 0s	21min 9s	
Critical heat flux CHF at extinction (kW/m ²)	11.0	9.8	2.8	9.2	7.3
Total smoke production at end of test (%.min)	4	100	184	125	136



Didier Van Daele
Head of floorcovering/fire tests



Prof. Dr. Paul KIEKENS, dr. h. c.
Head of Department

ENCLOSURE TO REPORT 13-795

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	