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Date

11/12/12

TEST REPORT 12-935

Correction

Samples received :

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

Commercial reference: Exposhow; Colour: Chinese red

Production date: 09/11/12; Mother bobbin: 120010276; Daughter bobbin: 120191515; OF: 1217546

Received on 16/11/2012

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, those marked ° are not accredited. Advices and interpretations are not covered by the accreditation.



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The department of Textiles is Notified laboratory n°1611 for the European Products directive 89/106/EC.

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.

The test EN 11925-2 has not been performed because the carpet fulfills the requirements of EN 14041 page 8 section 4.1.4 table 2. The carpet has a total mass of 600 g/m 2 \pm 10% and a pile thickness of 4 mm as declared by the

customer.

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 performed in week 48/2012

OBTAINED RESULTS

ISO 11925-2 (2002)

Lengthwise

Sample	Afterburning time (s)	After glowing time (s)	Boundary line reached	
		>	within 20 s	
1	18	•	No	
2	16	-	No	
3 >60		a.	No	

Crosswise

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

Classification

It can be deduced from the results that the quality Exposhow meets the requirements for the class \textbf{E}_{fl}

EN ISO 9239-1 (2010)*

	1	2	3	4	Average
Specimen number	Length	Width	Length	Length	Specimens
					1,3,4
Flame spread after 10 min (mm)	190	145	220	140	
Flame spread after 20 min (mm)	210	145	220	140	
Flame spread after 30 min (mm)	210	145	220	140	
Flame spread at extinction (mm)	210	145	220	140	
Flame time	13min 18s	13min 21s	13min 27s	12min 12s	
Critical heat flux CHF at	0.4	10.5	0.0	10.6	9.7
extinction (kW/m²)	9.4	10.5	9.2	10.6	9.7
Total smoke production at end	74	68	88	37	66
of test (%.min)			00	0.	

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ENCLOSURE TO REPORT 12-935

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

Classification	EN ISO 11925-2 (ignition time = 15 s)		
B _{fl}	Fs ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m²	X
C fl	Fs ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m²	
D fl	Fs ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m²	
E fl	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	