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**Date**

10/01/12

## TEST REPORT 11-1135

Translation

**Samples received :**

Needled flat tiles with use layer 100% polypropylene with flame retardent foam with a base of latex SBR and flame retardant underlayer with a base of polyolefines.

Commercial reference **CONCORD**. Colour : chine marron

Sample coming from the production of 14/12/2011, n° 1118717, bobbin: 110202510

Received on 23/12/2011

**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<sub>i</sub>.

Before the test the samples are not cleaned with a spray-extraction machine.

Measurement uncertainty:

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

Number of tests:

3 lengthwise and 3 crosswise

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.

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

Standard: **EN ISO 9239-1 (2002)\***

Method: Before the test the samples are not cleaned with a spray-extraction machine. A floorcovering is **put on (loose laid)** to 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 fulfils the requirements of EN 14041 page 8 section 4.1.4 table 2. The carpet has a total mass of 3100 g/m<sup>2</sup> and a surface pile thickness of 4.9 mm as obtained 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 2/2012.

## **OBTAINED RESULTS**

### **ISO 11925-2 (2002)**

#### **Lengthwise**

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

#### **Crosswise**

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

**EN ISO 9239-1 (2002)\***

a) Critical Flux :

Sample	Burned length (mm)		
	after 10 min	after 20 min	after 30 min
Width	245	245	245
Length	245	245	245
Length	245	245	245
Length	245	245	245
<b>average (of Length)</b>	<b>245</b>	<b>245</b>	<b>245</b>

Sample	Burned length maximum (mm)	Extinction (s)	Critical Flux (kW/m <sup>2</sup> )
Width	245	930	8.6
Length	245	903	8.6
Length	245	894	8.6
Length	245	846	8.6
<b>average (of Length)</b>	<b>245</b>	-	<b>8.6</b>

b) Smoke development:

Sample	Smoke development (%/min)			Smoke development (%/min)
	after 10 min	after 20 min	after 30 min	Maximum
Width	193	209	209	209
Length	204	221	221	221
Length	214	226	226	226
Length	204	220	220	220
<b>average (of Length)</b>	<b>207</b>	<b>222</b>	<b>222</b>	<b>222</b>

Remark: the report is valid for all colours.

Didier Van Daele  
Head of floorcovering/fire tests

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

## **ENCLOSURE TO REPORT 11-1135**

**Classification according to EN 13501 –1 (2002)°**

<b>Classification</b>	<b>EN ISO 11925-2 (ignition time = 15 s)</b>	<b>EN ISO 9239-1 (test period = 30 min)</b>	<b>CLASS</b>
B <sub>fl</sub>	Fs ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m <sup>2</sup>	<b>X</b>
C <sub>fl</sub>	Fs ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m <sup>2</sup>	
D <sub>fl</sub>	Fs ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m <sup>2</sup>	
E <sub>fl</sub>	Fs ≤ 150 mm in 20 s	No demand	
F <sub>fl</sub>	No demand	No demand	

**Additional classification smoke development according to EN 13501-1 (2002)°**

		<b>CLASS</b>
Smoke development ≤ 750%.min	s1	<b>X</b>
Smoke development > 750%.min	s2	