



TARKETT FLOORS

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Date

27/11/14

TEST REPORT 14-995

Translation

Samples received :

Needle-punched loop pile carpet with a 100% synthetic fibre use surface with a latex SBR based impregnation + non-flame retardant precoat

Commercial reference: TANGO PLUS / GALA PLUS

Production date = 18/10/14 parent bobbin = 140163336 OF1419011
bobbin = 140195974

Received on 27/10/2014

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 together with an underlay on an eflex plate 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 length wise and 3 cross wise

Measurement uncertainty:

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

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. A floorcovering is glued (with solventfree glue) to 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

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

uncertainty:

smoke development.

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

The tests were performed in week 47/2014.

OBTAINED RESULTS

Small flame test

Ignition time : 15 s

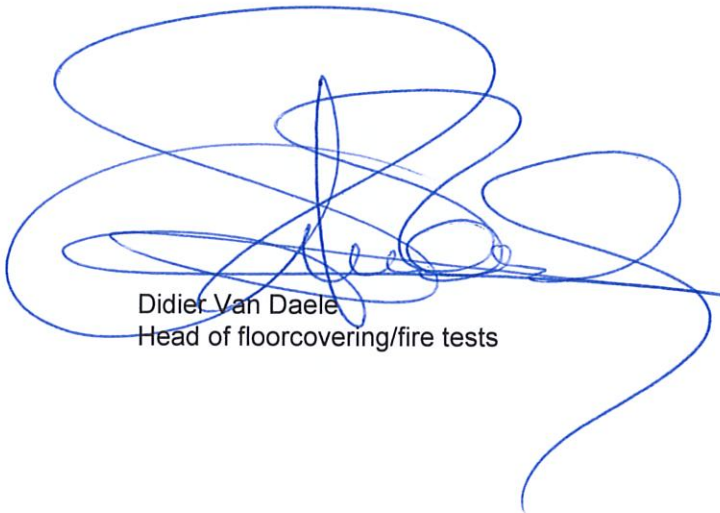
Lengthwise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	18 s	-	No
2	> 60 s	-	No
3	17 s	-	No

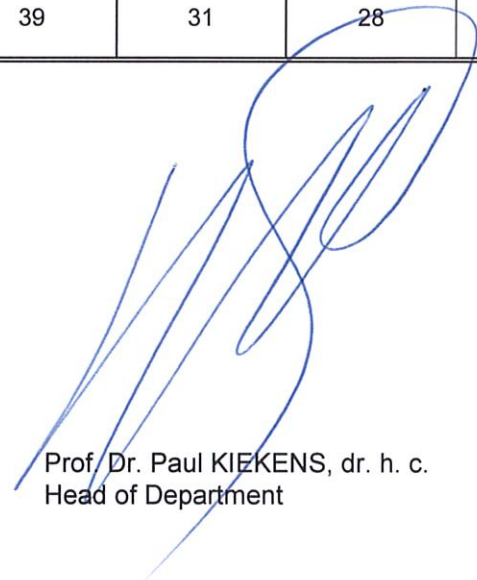
Crosswise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	19 s	-	No
2	> 60 s	-	No
3	> 60 s	-	No

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	35	30	40	25	
Flame spread after 20 min (mm)	40	50	50	45	
Flame spread after 30 min (mm)	40	50	50	45	
Flame spread at extinction (mm)	40	50	50	45	
Flame time	12min 0s	12min 3s	12min 6s	12min 6s	
Critical heat flux CHF at extinction (kW/m ²)	11.8	11.8	11.8	11.8	≥11
Total smoke production at end of test (%.min)	24	39	31	28	32



Didier Van Daele
Head of floorcovering/fire tests



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

ENCLOSURE TO REPORT 14-995

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	