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Date

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TEST REPORT 08-182

Samples received :

PULASTIC ZS (8+2)

Information given by customer:

Polyurethane/Rubber floorcovering. Total thickness approx. 10 mm. Total surface weight approx. 8.8 kgs/sq. m.

Build up :

- Wear coat, polyurethane based with a surface weight of approx. 3.5 kgs/sq. m and a thickness of approx. 2 mm.

- Shock pad consisting of a polyurethane bonded recycled-rubber with a surface weight of approx. 5.3 kgs/sq.m and a thickness of approx. 8 mm.

Floor covering system has been glued on a fiber cement base 5-6 mm thickness.

Received on 5/03/08

Aim of the test : Determination of fire behaviour

Test conditions :

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

Method: Before the test the samples are not cleaned with a spray-extraction machine. 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: 3

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

samples:

The tests were performed in week 11/2008

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. The tests that are 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.

Classification according to EN 13501-1 (2002)°

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)
B _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m ²
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 (2002)°

Smoke development ≤ 750%.min	s1
Smoke development > 750%.min	s2

OBTAINED RESULTS

a) Critical Flux :

Sample	Burned length (mm)		
	after 10 min	after 20 min	after 30 min
1	100	110	185
2	125	180	235
3	110	130	155
average	112	140	192

Sample	Burned length maximum (mm)	Extinction (s)	Critical Flux (kW/m ²)
1	185	> 1800	9.7
2	235	> 1800	8.8
3	155	> 1800	10.2
average	192	-	9.6

b) Smoke development:

Sample	Smoke development (%min)			Smoke development (%min)
	after 10 min	after 20 min	after 30 min	Maximum
1	353	787	1310	1310
2	372	1042	1474	1474
3	441	792	954	954
average	389	874	1246	1246

CLASSIFICATION

Since the radiation intensity is **higher** than 8.0 kW/m² and the smoke development is higher than 750 %min, the quality **PULASTIC ZS (8+2)** meets the demands of **class B_{FL} s2** according to EN 13501-1°.

Didier Van Daele
Head of floorcovering/fire tests

Prof. Dr. Paul KIEKENS, dr. h. c.
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