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TEST REPORT 08-494

Adaptation

Samples received :

Information given by customer:

Pulastic Combi RP 9 Extra

Polyurethane/Rubber floorcovering on a wooden plate. Total thickness approx. 33 mm. Total surface weight approx. 22.3 kgs/sq.m.

Build up:

- Wear coat, polyurethane based, with a surface weight of approx. 4.0 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. 4,6 kgs/sq.m and a thickness of approx. 7 mm.

Floor covering system has been glued on a plywood plate with a surface weight of approx. 13.7 kgs/sq.m and a thickness of approx 24 mm.

Received on 14/07/08

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:

Remark: samples have been put in an oven of 50°C during 3 days.

The tests were performed in week 29/2008

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	90	135	155
2	100	120	150
3	220	240	250
average	137	165	185

Sample	Burned length maximum (mm)	Extinction (s)	Critical Flux (kW/m ²)
1	155	> 1800	10.5
2	150	> 1800	10.6
3	250	> 1800	8.7
average	185	-	9.9

b) Smoke development:

Sample	Smoke development (%min)			Smoke development (%min)
	after 10 min	after 20 min	after 30 min	Maximum
1	351	1034	1560	1560
2	408	1016	1432	1432
3	569	1303	1575	1575
average	443	1118	1522	1522

CLASSIFICATION

Since the radiation intensity is higher than 8.0 kW/m² and the smoke development is higher than 750 %min, the quality **Pulastic Combi RP 9 Extra** meets the demands of class **B_{FL} s2** according to EN 13501-1°.

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