



Confidential Report

Our Ref: 26/03003A2/05/22





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Email: onestopshop@bttg.co.uk
Website: www.bttg.co.uk

Date: 24 May 2022

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Client:

Polyflor Limited

Radcliffe New Road
Whitefield
Manchester
M45 7NR

Job Title:

Fire Test on One Sample of Flooring

Clients Order Ref:

2262216

Date of Receipt:

6 May 2022

Description of Sample:

One sample of flooring, referenced;

Product Name: Sport 67
Nominal Thickness, mm: 6.7
Weight Per Init Area, kg/m²: 4.26
Batch Number: 2381209
Shade: 7515 Green

Work Requested:

We were asked to make the following test(s):

AS ISO 9239-1

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited

Note: This report relates only to the samples submitted and as described in the report.



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FIRE TESTS ACCORDING TO AS ISO 9239-1:2003

Reaction to fire tests for Floorings - Part 1: Determination of the burning behaviour using a radiant heat source (ISO 9239-1:2002)

Date of Test: 20/05/2022

Conditioning

The specimens were conditioned in accordance with BS EN 13238:2010. The substrate used was a fibre cement board (ISO 390) with a thickness of (6 ± 1) mm and a density of $(1,800 \pm 200)$ Kg/m³ representing the standard substrate of Class A1fl or A2fl.

Mounting Method

The specimens of floor covering were tested adhered to a 6mm fibre cement backing board, as defined in BS EN 13238:2010 using Uzin KE2000S adhesive.

Procedure

The test was carried out in accordance with AS ISO 9239-1:2003. The sponsor sampled and cut the specimens to the dimensions stated.

Specimens were individually placed in the combustion chamber and allowed to preheat for two minutes under a radiant panel, which gives an imposed radiant flux ranging from approximately 11.0 kW/m² to 1.0 kW/m² along the specimen.

The pilot flame used was the line burner as described and was applied to the surface of the specimen for 10 minutes and then removed.

The flame front was measured at the end of the test or at 30 minutes if applicable.

Test termination was considered to be when the flame front self extinguished or at 30 minutes, whichever is the sooner.

The heat flux from the panel incident on the specimen when self extinguished or at 30 minutes (critical heat flux CHF or HF-30) was calculated from a prior calibration.



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Results

The test results relate to the behaviour of the test specimens of a material under the particular conditions of test; they are not intended to be the sole criterion for assessing the full potential fire hazard of the materials in use.

Specimen No.	Direction of spec.	Smoke Obscuration/Development		Maximum Flame front (mm)	Heat Flux-30 (HF-30) (kW/m ²)	Critical Heat/Radiant Flux (CHF/CRF) (kW/m ²)	Duration of Flaming (sec)
		Max %	% x min				
1	Non directional	100	388	300	7.0	7.0	720
2	Non directional	100	377	281	7.3	7.3	720
3	Non directional	100	395	300	7.0	7.0	720
Mean of 3 specs.	Non directional	100	387	294	7.1	7.1	720

Distance Burnt (mm)	Time for each specimen to burn (s)		
	1	2	3
50	150	160	150
100	180	193	180
150	200	203	200
200	200	220	210
250	230	220	210
300	255	--	270

Observations

Flashing occurs on all specimens.



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Note

One specimen was initially tested in each direction and whichever direction gave the worst result a further two specimens were tested. Only the results of the 3 specimens in the same direction were used to calculate the mean results.

An estimation of uncertainty of measurement has been taken into account when making a judgment to any pass/fail criteria. Under our Policy we have used a non-binary decision rule.

See our Decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

Reported by:.....*B Marsden*..... B Marsden (Mrs), Senior laboratory Technician

Countersigned by:.....*A Shute*..... A Shute, Senior Laboratory Technician

Enquiries concerning this report should be addressed to Customer Services.



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