



Confidential Report

Our Ref: 26/02783F/11/20



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Notified Body
for PPE Directive,
Construction Products Regulation
& Marine Equipment Directive
I.D. No. 0338 & 0339



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Date: 17 November 2020

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Your Ref: ---

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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:

2251096

Date of Receipt:

30 October 2020

Description of Sample:

One sample of flooring, referenced; .
Product Name: Polysafe Standard PUR
Nominal Thickness: 2.0mm
Weight Per Unit Area: 2.43kg/m²
Batch Number: 1B637
Shade: 4090 Nordic Grey

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



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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: 17/11/2020

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 board, as defined in BS EN 13238:2010, using Styccobond F44 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.

<u>Specimen No.</u>	<u>Direction of spec.</u>	<u>Smoke Obscuration/Development</u>		<u>Maximum Flame front (mm)</u>	<u>Heat Flux-30 (HF-30) (kW/m²)</u>	<u>Critical Heat/Radiant Flux (CHF/CRF) (kW/m²)</u>	<u>Duration of Flaming (sec)</u>
		<u>Max %</u>	<u>% x min</u>				
1	Non directional	75	174	70	>10.8	>10.8	750
2	Non directional	83	198	75	>10.8	>10.8	790
3	Non directional	98	221	65	>10.8	>10.8	747
Mean of 3 specs.	Non directional	85	198	70	>10.8	>10.8	762

<u>Distance Burnt (mm)</u>	<u>Time for each specimen to burn (s)</u>		
	<u>1</u>	<u>2</u>	<u>3</u>
50	205	220	215

Observation

Flashing occurs

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.



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Reported by:..... *23. March* B Marsden (Mrs), Senior Fire Technician

Countersigned by:.....  P Doherty, Executive Manager

Enquiries concerning this report should be addressed to Customer Services.

