



Confidential Report

Our Ref: 26/02646B/11/19



1066

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

Date: 22 November 2019

Our Ref: 26/02646B/11/19

Your Ref: -

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Client:

Polyflor Ltd
PO Box 3
Radcliffe New Road
Whitefield
Manchester
M45 7NR

Job Title:

Fire Test on One Sample of Vinyl Flooring

Client's Order No:

2245202

Date of Receipt:

07 November 2019

Description of Sample(s):

One sample of vinyl flooring

Sample Reference:

Polyflor OHMega EC

Nominal Thickness:

2.0 mm

Weight per Unit Area:

3.06 kg/m²

Batch No:

0906506

Shade:

6006 Morning Dew

Work Requested:

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

AS ISO 9239-1

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

* subcontracted test, UKAS accredited

** subcontracted test, EN ISO/IEC 17025 accredited

*** not UKAS accredited

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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: 21/11/2019

Conditioning

The specimens were conditioned in accordance with BS EN 13238:2010. The substrate used was non fire retardant treated particleboard (in accordance with EN 312) with thickness (20 ± 2) mm, with density (680 ± 50) kg/m³ and with classification Cfl-s1 when tested (according to EN ISO 9239-1) as flooring but without a substrate.

Procedure

The test was carried out in accordance with AS ISO 9239-1. 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	72	148	158	9.8	9.8	770
2	Non Directional	92	249	205	9.0	9.0	962
3	Non Directional	97	312	210	8.9	8.9	1156
Mean of 3 specs.	Non Directional	87	236	191	9.2	9.2	963

<u>Distance Burnt (mm)</u>	<u>Time for each specimen to burn (s)</u>		
	<u>1</u>	<u>2</u>	<u>3</u>
50	162	157	180
100	214	190	215
150	240	210	230
200	---	250	255

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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.

The specimens of floor covering were tested adhered to a 20mm non fire retardant treated particleboard as defined in BS EN 13238:2010 using Balls F57 adhesive.

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

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

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

Enquiries concerning this report should be addressed to Customer Services.



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Uncertainty Budget - Annex

The uncertainty budget for BS EN 13501-1:2007+A1:2009 was determined as follows:-

Overall (BS EN ISO 9239-1)

The uncertainty varies, therefore:

At position between a Euroclass B to C $\pm 15\%$

At position between a Euroclass C to D $\pm 15.5\%$

At position between a Euroclass D to E $\pm 17.5\%$



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