



# Confidential Report

**Our Ref: 26/02486B/11/18**



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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: 15 November 2018

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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:

2237710

Date of Receipt:

02 November 2018

Description of Sample(s):

One sample of vinyl flooring, referenced;

Sample Reference:

Polysafe Quicklay PUR

Nominal Thickness:

2.2

Weight per Unit Area:

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Batch No:

1T801/1

Shade:

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Work Requested:

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

AS ISO 9239-1

Note: 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: 14/11/2018

## **Conditioning**

The specimens were conditioned in accordance with BS EN 13238:2002. The substrate used was a fibre cement board (ISO 390) with a thickness of (6±1)mm and a density of (1,800±200) Kg/m<sup>3</sup> representing the standard substrate of Class A1fl or A2fl.

## **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/m<sup>2</sup> to 1.0 kW/m<sup>2</sup> 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.



TESTING • CERTIFICATION • AUDITING

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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<br>No.     | Direction<br>of spec. | Smoke Obscuration/<br>Development |         | Maximum<br>Flame front<br>(mm) | Heat Flux-30<br>(HF-30)<br>(kW/m <sup>2</sup> ) | Critical<br>Heat/Radiant<br>Flux<br>(CHF/CRF)<br>(kW/m <sup>2</sup> ) | Duration of<br>Flaming<br>(sec) |
|---------------------|-----------------------|-----------------------------------|---------|--------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|---------------------------------|
|                     |                       | Max %                             | % x min |                                |                                                 |                                                                       |                                 |
| 1                   | Machine               | 67                                | 178     | 160                            | 9.8                                             | 9.8                                                                   | 720                             |
| 2                   | Across                | 61                                | 154     | 230                            | 8.5                                             | 8.5                                                                   | 720                             |
| 3                   | Across                | 92                                | 206     | 256                            | 8.0                                             | 8.0                                                                   | 720                             |
| 4                   | Across                | 53                                | 138     | 210                            | 8.9                                             | 8.9                                                                   | 720                             |
| Mean of<br>3 specs. | Across                | 68                                | 166     | 230                            | 8.5                                             | 8.5                                                                   | 720                             |

| Distance<br>Burnt (mm) | Time for each specimen to burn (s) |          |          |          |
|------------------------|------------------------------------|----------|----------|----------|
|                        | <u>1</u>                           | <u>2</u> | <u>3</u> | <u>4</u> |
| 50                     | 136                                | 130      | 127      | 137      |
| 100                    | 237                                | 152      | 133      | 178      |
| 150                    | 261                                | 171      | 142      | 243      |
| 200                    | ---                                | 201      | 169      | 312      |
| 250                    | ---                                | ---      | 169      | 312      |
| 300                    | ---                                | ---      | 262      | ---      |
| 350                    | ---                                | ---      | ---      | ---      |



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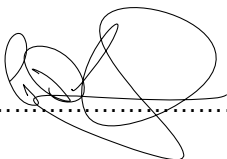
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## Note

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 loose laid over a 6mm fibre cement board , as defined in BS EN 13238:2010.

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:.......... P Doherty, Executive Manager

Enquiries concerning this report should be addressed to Customer Services.



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