



# Confidential Report

**Our Ref: 26/03461B/03/25**





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Telephone: +44 (0) 113 259 1999  
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Date: 2 April 2025

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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 Flooring

**Clients Order Ref:**

2280507

**Date of Receipt:**

13 March 2025

**Description of Sample:**

One sample of luxury vinyl tile flooring planks, referenced:-

**Product Name:**

Affinity 2556/Expona Superplank

**Nominal Thickness, mm:**

2.0

**Weight Per Unit Area kg/m<sup>2</sup>:**

2.96

**Batch No:**

G1/R1384/811/C

**Shade:**

9876 Harvest Oakj

**Work Requested:**

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

AS ISO 9329-1

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

Note: This report relates only to the items tested.



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**Product Description Sheet**  
 (as supplied by the client)

Name and/or Identification of the Product Tested	<b>Affinity 255 PUR / Expona Superplank</b>
Construction	<b>Lamination</b>
General Composition	<b>LVT</b>
Mass per Unit Area (g/m <sup>2</sup> )	<b>2960</b>
Total Thickness (mm)	<b>2.0</b>
Wear Layer Thickness (mm)	<b>0.55</b>
Coating Composition	<b>PU</b>
Fire Retardant Additives?	<b>No</b>



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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: 01/04/25

## Conditioning

The specimen was conditioned in accordance with BS EN 13238:2010.

## Mounting Method

Each specimen was mounted using the following conditions, as defined in BS EN 13238:2010:

Method of Mounting/Fixing:	Adhered
Test Substrate (as specified in (BS EN 13238):	wood particle board
Adhesive (if applicable):	UZIN KE2000S adhesive.
Joint at 250 mm from the Zero Point:	Yes
Joint at Longitudinal Centre:	Yes

## 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/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.





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### Procedure (Continued)

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, which ever 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.

### 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 <sup>2</sup> )	Critical Heat/Radiant Flux (CHF/CRF) (kW/m <sup>2</sup> )	Duration of Flaming (sec)
		Max %	% x min				
1	Machine	47	162	70	>11.1	>11.1	841
2	Across	42	137	72	>11.1	>11.1	800
3	Across	44	175	61	>11.1	>11.1	840
4	Across	46	171	65	>11.1	>11.1	900
Mean of 3 specs.	Across	44	161	66	>11.1	>11.1	847

Distance Burnt (mm)	Time for each specimen to burn (s)			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
50	260	301	283	305





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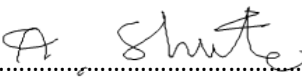
### Note

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.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

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

Reported by:  B Marsden (Mrs), Senior Laboratory Technician

Countersigned by:  A Shute, Section Leader

Enquiries concerning this report should be addressed to Customer Services.





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## Uncertainty Budget

The uncertainty budget for AS ISO 9239-1: 2010 was determined as follows:-

### Overall

The uncertainty varies down the length of the panel therefore:

- a) At position between 0 – 450mm  $\pm 7\%$
- b) At position between 450mm -1000mm  $\pm 8\%$

Smoke Obscuration  $\pm 15\%$

