Confidential Report

Our Ref: 26/02246B/08/17

ilac-MRA

UKAS TESTING
1066

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

Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
Telephone: +44 (0) 113 259 1999
Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 27 September 2017

Our Ref: 26/02246B/08/17
Your Ref: -

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: 2228697

Date of Receipt: 21 August 2017

Description of Sample(s): One sample of vinyl flooring, referenced;
Sample Reference: Polyflor Palettone PUR
Nominal Thickness: 2.0
Weight per Unit Area: 2.80
Batch No: 7T231
Shade: 8605 Urban Air

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

AS ISO 9239-1:2003

* 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: 21/09/2017

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^3 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^2 to 1.0 kW/m^2 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, 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.

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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	Machine	43	80	125	10.4	10.4	740
2	Across	50	116	170	9.6	9.6	751
3	Across	45	103	155	9.9	9.9	753
4	Across	51	114	152	10.0	10.0	740
Mean of 3 specs.	Across	49	111	159	9.8	9.8	748

Distance Burnt (mm)	Time for each specimen to burn (s)			
	1	2	3	4
50	180	168	200	171
100	225	211	230	227
150	--	251	270	240
200	--	--	--	--

Note

As the sample is non directional, only three specimens were supplied for testing.

The specimens of floor covering were tested adhered to a 12mm calcium silicate board , as defined in BS EN 13238:2010, using Styccobond F44 adhesive.

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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 6mm fibre cement board , as defined in BS EN 13238:2010 using customer adhesive.

Reported by:…… B Marsden (Mrs), Fire Technician

Countersigned by:…….. P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services..

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Uncertainty Budget - Annex

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

Overall

The uncertainty varies down the length of the panel therefore:

At position between a **Euroclass B to C ± 15%**
At position between a **Euroclass C to D ± 15.5%**
At position between a **Euroclass D to E ± 17.5%**

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