



Confidential Report

Our Ref: 26/01900B/07/15

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

British Carpet Technical Centre
Wira House, West Park Ring Road,
Leeds, LS16 6QL

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BCTC

CARPET TECHNICAL CENTRE

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24 July 2015

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Client: Polyflor Ltd
PO Box 3
Radcliffe New Road
Whitfield
Manchester
M45 7NR

Job Title: **Fire Test on One Sample of Vinyl Flooring**

Clients Order Ref: 2212022

Date of Receipt: 3 July 2015

Description of Sample: One sample of vinyl flooring, referenced:-

Product Name: **Polyflor 2000 PUR / Primus 2000 PUR / Voyager PUR**
Nominal Thickness, mm: **2.0**
Weight per unit area kg/m²: **3.55**
Batch No: **7Z199**
Shade: **8050 Stream**

Work Requested: BCTC were requested to carry out a fire test on the sample supplied to AS ISO 9239-1.





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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: 14/07/2015

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 $(1,800\pm 200)$ Kg/m³ 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/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 Max %</u>	<u>% x min</u>	<u>Maximum Flame front (mm)</u>	<u>Heat Flux-30 (HF-30) (kW/m²)</u>	<u>Critical Heat Flux (CHF) (kW/m²)</u>	<u>Duration of Flaming (sec)</u>
1	Machine	41	103	108	10.8	10.8	737
2	Across	45	100	104	10.9	10.9	736
3	Machine	41	101	126	10.5	10.5	738
4	Machine	44	92	110	10.8	10.8	761
Mean of 3 specs.	Machine	42	99	115	10.7	10.7	745

<u>Distance Burnt (mm)</u>	<u>1</u>	<u>Time for each specimen to burn (s)</u>		<u>4</u>
		<u>2</u>	<u>3</u>	
50	176	167	173	172
100	201	192	205	207

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 Stycobond F44 adhesive.





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An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.

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

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

Enquiries concerning this report should be addressed to Customer Services.

