

CUSTOMER REFERENCE

HIGH TECH

Sample description as provided by customer

Mass/unit area 20 oz/yd² 660 g/m² Pile Fibre Content 100% RESISTAIN SOLUTION DYED NYLON

Construction Details Secondary Backing Synthetic

Style LOOP

Order No. 15430

Colour Spectra

Pile Height 5 mm

TEST METHOD AS/ISO 9239.1 2003 Reaction To Fire Tests For Floorings Part 1 Determination of the Burning Behaviour Using a Radiant Heat Source. As required by specification C1.10a of the Building Code of Australia.

Tested in accordance with the Carpet Institute Code of Practice for AS/ISO 9239 Testing Version 10 / 0805.

The test values relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. Clause 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date 10/11/2009

Test Date 20/11/2009

ASSEMBLY SYSTEM: OVER UNDERLAY (Details Below).

The UNDERLAY used was BRIDGESTONE STANDARD BLACK RUBBER.

Substrate : Non-combustible

Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.

Sample Cleaned as Specified in ISO 11379.1997

Initial Test Specimen 1 Length Direction Critical Radiant Flux 6.0 kW/m²
Specimen 1 Width Direction Critical Radiant Flux 5.9 kW/m²
Full tests carried out in the Width Direction

SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	5.9	6.1	6.0	6.0
Smoke Development Rate (%.min)	242	260	219	240

The values quoted below are as required by Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia. The Critical Radiant Flux quoted is the value at Flame-Out/Extinguishment (BCA General Provisions A1.1).

MEAN CRITICAL RADIANT FLUX 6.0 kW/m²

MEAN SMOKE DEVELOPMENT RATE 240 %.min

OBSERVATIONS The sample shrunk away from the heat source ,ignited and burnt a short distance



M. B. Webb
Technical Manager

DATE: 20/11/2009

Measurement Science &
Technology No. 15393
This document is issued in accordance with
NATA's accreditation requirements.



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This Page (1) has been designed to show the values required under Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

The values on Page 2 have no relevance to the Code.

1004 04 09

Pyrometer temperature
On calibration 576.6 °C
Start of test run 575.6
During test run 576.8

Chamber temperature
On calibration 99.2 °C
Start of test run 100.2
During test run 100.5

Clause 7.2.2 AS/ISO 9239 The pyrometer should be $\pm 5^\circ$ of calibration temperature.
The Chamber Temperature should be $\pm 10^\circ$ of calibration temperature
The Holding Tension on Specimen Frame was 2 Nm

TIME FOR EACH SPECIMEN TO REACH EACH MARKER IN SECONDS

Specimen	50	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	
1	236	239	258	332	386	429	535	993	/										
2	188	190	242	294	363	406	583	/											
3	193	196	250	319	358	419	593												

FLUX CALIBRATION: FLX08001

TESTS

Specimen	SMOKE PRODUCTION				BURNING CHARACTERISTICS			
	Initial Test: Length	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)	Critical Heat Flux at 30min (kW/m ²)*	Specimen Tests: Width	
1		49	235	355	1,032		1	(n/a)*
2		52	242	360	999		2	(n/a)*
3		55	260	350	975		3	(n/a)*
Mean		48	219	354	981		Mean	*



ACREDITED FOR TECHNICAL COMPETENCE
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The laboratory does not allow the use of this page of the report without the use of page 1.

This page alone has no validity under specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

* Critical Heat Flux at 30min has no relevance under the Building Code of Australia which demands Heat Flux measurement at Flame Out/Extinguishment (BCA General Provisions A1.1).

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