

CUSTOMER REFERENCE

MYSTIC ISLE

Sample description as provided by customer

Mass/unit area **50 oz/yd²** g/m² Pile Fibre Content **100%RESISTAIN SOLUTION DYED NYLON**

Construction Details **Tufted** Secondary Backing **Jute**

Style **Cut Pile**

Order No. **10175**

Colour **Dark Grey**

Pile Height **12 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 results 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 **6/12/2006.**

Test Date **21/12/2006.**

ASSEMBLY SYSTEM OVER UNDERLAY details below.

The UNDERLAY used was DUNLOP EXCELLAY.

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 5.9 kW/m²
Specimen 1 Width Direction Critical Radiant Flux 6.8 kW/m²
Full tests carried out in the Length Direction


SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m ²)	5.9	5.9	6.6	6.1
Smoke Development Rate (%.min)	293	269	247	270

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.

MEAN CRITICAL RADIANT FLUX 6.1 kW/m²


MEAN SMOKE DEVELOPMENT RATE 270 %.min

OBSERVATIONS The samples melted away from the heat source then ignited

**NATA**
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COMPE TENCE

Authorised Signatory **M. B. Webb**
Date **21/12/2006.**

NATA Reg. No. 15393
Heat and temperature measurement.



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Page 2 only shows the time required in seconds for the flame front to reach each time marker, the total test time and the CHF value at 30 minutes (if applicable).

The laboratory allows the use of this page of the report without the use of page 2.

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Pyrometer temperature
 On calibration 528.7°C
 Start of test run 529.3
 End of test run 529.8

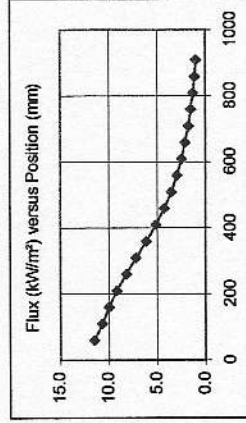
Chamber temperature
 On calibration 91.0°C
 Start of test run 89.6
 End of test run 89.3

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 1 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	171	182	297	351	456	522	618	835	/										
2	169	202	322	432	487	538	617	945	/										
3	159	243	319	385	435	513	575	/											

FLUX CALIBRATION: FLX060003



TESTS

Specimen	SMOKE PRODUCTION				BURNING CHARACTERISTICS				
	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length at Flame Out (mm)	Time To Burn Out (s)	Critical Heat Flux at 30min (kW/m²)	Smoke Development Rate (%.min)	Burn Length at Flame Out (mm)	Time To Burn Out (s)	Critical Heat Flux at 30min (kW/m²)
Initial Test: Width	42	255	330	1,436	(n/a)				
Specimen Tests: Length									
1	53	293	370	1,271	(n/a)				
2	48	269	370	1,425	(n/a)				
3	50	247	340	894	(n/a)				
Mean	50	270	360	1,197	(n/a)				



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 COMPETENCE**

NATA Reg. No. 15393
 Heat and temperature measurement.

Authorised Signatory
M B Webb
 Date 21/12/2006

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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.

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