



TEST REPORT No. 093699

LABORATORY REF: P093699

CUSTOMER REFERENCE



IRON BARK

Sample description as provided by customer

Mass/unit area 20 oz/yd<sup>2</sup> 660 g/m<sup>2</sup> Pile Fibre Content 100% RESISTAIN SOLUTION DYED NYLON

Construction Details Secondary Backing Synthetic

Style LOOP

Order No. 15430

Colour [Redacted]

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/m<sup>2</sup>

Specimen 1 Width Direction Critical Radiant Flux 5.9 kW/m<sup>2</sup>

Full tests carried out in the Width Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	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/m<sup>2</sup>

## MEAN SMOKE DEVELOPMENT RATE 240 %.min

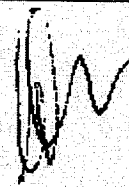
OBSERVATIONS The sample shrunk away from the heat source ,ignited and burnt a short distance



**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

APL Australia Pty Ltd  
5 Carinish Rd, Oakleigh South  
Victoria 3167 Australia

Telephone: 03 9543 1618  
Facsimile: 03 9562 1818  
Mobile: 0411 039 088

Email: apl@aplaustralia.com.au  
Web: www.aplaustralia.com.au  
ABN 69 468 849 319





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THE INFORMATION PROVIDED ON THIS PAGE OF THE TEST REPORT IS FOR THE SPONSORS USE ONLY AND WILL MEET THE REQUIREMENTS OF THE STANDARD. IT IS NOT REQUIRED UNDER CLAUSE C1.10A OF THE BUILDING CODE OF AUSTRALIA

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**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**

FLUX CALIBRATION: FLX08001

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											

**TESTS**

Specimen	SMOKE PRODUCTION				BURNING CHARACTERISTICS				Critical Heat Flux at 30min (kW/m²)*
	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)					
Initial Test: Length	49	235	355	1,032					
Specimen Tests: Width									
1	52	242	360	999	(n/a)*				
2	55	260	350	975	(n/a)*				
3	48	219	354	981	*				
Mean	52	240	355	985	*				



ACCREDITED FOR TECHNICAL COMPETENCE

M. B. Webb  
Technical Manager

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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).

2004 04 09 8002 19 November 2009

APL Australia Pty Ltd  
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Victoria 3167 Australia

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Mobile: 0411 039 088

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