



Att Mr John Roberts
 m/s Bridgestone Pty,
 Consumer Products Division 20 Gippsland Highway Dandenong Vic

TEST REPORT No. 072512
 LABORATORY REF: P072512

CUSTOMER REFERENCE
TORNADO

Sample description as provided by customer
 Mass/unit area **22 oz/yd² 750 g/m²** Pile Fibre Content **100% SOLUTION DYED NYLON**
 Construction Details **Tufted** Secondary Backing **Synthetic**
 Style **Loop**

Order No. **JR**
 Colour **Kaleidoscope**
 Pile Height **5.0 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 **November 2007** Test Date **13/12/2007**

ASSEMBLY SYSTEM OVER UNDERLAY details below.

The UNDERLAY used was BRIDGESTONE PERMIUM GOLD.

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 1.2 kW/m²
 Specimen 1 Width Direction Critical Radiant Flux 1.2 kW/m²
 Full tests carried out in the **Length** Direction

SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m ²)	1.2	1.3	1.2	1.2
Smoke Development Rate (%.min)	474	396	386	419


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 1.2 kW/m²
MEAN SMOKE DEVELOPMENT RATE 419 %.min

OBSERVATIONS **The samples shrunk away from the heat source then ignited**



Authorised Signatory **M. B. Webb**
 Date **13/12/2007**



NATA Reg. No. 15393
 Heat and temperature measurement.

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PAGE 1 of 2

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.

1001 01 06

Pyrometer temperature
 On calibration 535.9°C
 Start of test run 534.0
 End of test run 534.8

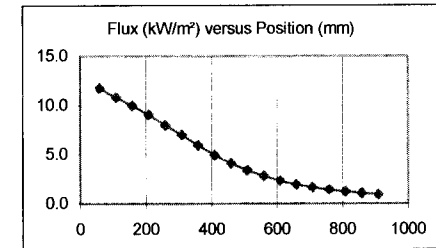
Chamber temperature
 On calibration 96.6°C
 Start of test run 102.7
 End of test run 101.9

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	149	155	170	198	221	250	262	291	352	473	1281	1594	1751	1811	2123	2371	3096	
2	151	159	183	216	229	265	283	306	375	498	1358	1499	1637	1963	2158	2471	2963	
3	143	150	196	222	239	284	306	316	384	470	651	1246	1542	1807	2259	2761	3090	

FLUX CALIBRATION: FLX07001



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)
Initial Test: Width	79	373	824	3,169	2.0
Specimen Tests: Length					
1	83	474	810	3,104	1.9
2	84	396	791	3,263	1.9
3	81	386	810	3,103	2.0
Mean	83	419	804	3,157	1.9



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