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

TEST REPORT No. 072513

LABORATORY REF: **P072513**

CUSTOMER REFERENCE

HIGH TECH

Sample description as provided by customer — Order No. **JR**

Mass/unit area **20** oz/yd^2 **678** g/m^2 Pile Fibre Content **100% RESISTAIN SOLUTION DYED NYLON**

Construction Details **Tufted** Secondary Backing **Synthetic** — Colour **Tourmaline**

Style **LOOP** — Pile Height **4.5** 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 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 **14/12/2007**

ASSEMBLY SYSTEM OVER UNDERLAY details below.

The UNDERLAY used was BRIDGESTONE FIRECHECK.

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	2.0 kW/m^2
	Specimen 1 Width Direction	Critical Radiant Flux	2.0 kW/m^2
	Full tests carried out in the	**Length** Direction	

SPECIMEN	Length #1	Length #2	Width #3	Mean
Critical Radiant Flux (kW/m^2)	2.0	1.8	1.6	1.8
Smoke Development Rate (%.min)	466	385	339	397

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 1.8 kW/m^2

MEAN SMOKE DEVELOPMENT RATE 397 %.min

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

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Authorised Signatory **M. B. Webb**
Date **14/12/2007**

NATA Reg. No. 15393
Heat and temperature measurement.

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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TEST REPORT No. 72513
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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

Pyrometer temperature	
On calibration	535.9°C
Start of test run	533.4
End of test run	532.9

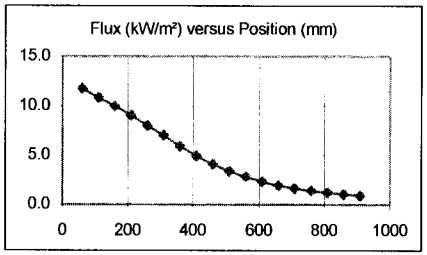
Chamber temperature	
On calibration	96.6°C
Start of test run	104.1
End of test run	105.6

Clause 7.2.2 AS/ISO 9239 The pyrometer should be ± 5° of calibration temperature.
The Chamber temperature should be ±10° 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	142	148	183	213	232	283	332	367	529	630	934	1299	1850	/				
2	146	157	209	258	293	306	349	421	685	793	1173	1469	2043	2648				
3	160	165	233	259	281	319	352	444	783	950	1357	1699	2312	2618	3306	/		

FLUX CALIBRATION: FLX07001



TESTS **SMOKE PRODUCTION** **BURNING CHARACTERISTICS**

Specimen	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**	**69**	**427**	**654**	2,133	2.3
Specimen Tests: **Length**					
1	79	466	650	**2,193**	2.3
2	79	385	686	2,841	2.4
3	72	339	730	**3,628**	2.6
Mean	77	397	689	**2,887**	2.4

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

NATA Reg. No. 15393
Heat and temperature measurement.

Authorised Signatory
M B Webb
Date **14/12/2007**

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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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