

Attn: Mr Damien Ryan, Technical Manager  
m/s SIGNATURE FLOORCOVERINGS PTY LTD  
13 Wurundjeri Drive Epping Vic 3076

LABORATORY TEST REPORT  
**P172599**

## LAYERS

Sample description as provided by customer

Pile weight mass/unit area 1020 g/m<sup>2</sup>

Construction Details Tufted Secondary Backing Tile Backing

Style Multi Level Loop Tipshear

The Samples Tested Were Modular Carpet Planks Dimensions 1,000 mm X 250 mm

Order No. PO110241

Pile Fibre Content 100% SOLUTION DYED NYLON

Colour Grey Shades

Pile Height 5.5 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 the Building Code of Australia (BCA) and National Construction Code 2015 (NCC) specifications C1.10. Sample conditioning as specified in BS EN 13238.2010.

Sample Submitted Date Dec 2017

Test Date 23 Dec 2017

Total Thickness 8.5 mm

### Assembly System: DIRECT STICK (Details Below).

The floor covering was directly stuck to the substrate using Water Based Surface Contact adhesive.

Substrate: Non-Combustible - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.  
The Holding Torque on Specimen Frame was 2Nm.

The standard requires two Initial Tests be conducted on samples mounted in both Length and Width directions.  
Two further samples are then tested in whichever direction has the lowest Critical Radiant Flux.

Initial Tests: Length Direction Critical Radiant Flux 5.5 kW/m<sup>2</sup>  
Width Direction Critical Radiant Flux 6.4 kW/m<sup>2</sup>

	Specimen Tests conducted in the Length Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	5.5	5.3	5.1	5.3
Smoke Development Rate (%.min)	197	246	253	232

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

**Mean Critical Radiant Flux 5.3 kW/m<sup>2</sup>**

**Mean Smoke Development Rate 232 %.min**

Observations: The samples shrunk away from the heat source, ignited and burnt a relatively short distance.

AS ISO 9239.1 Clause 9(o) 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.

All information required for compliance with the BCA and NCC is given on this test report page.

Page 1 of 2

(v5-0, 11/03/2017)



ACCREDITED FOR  
TECHNICAL  
COMPETENCE

M. B. Webb  
Technical Manager

DATE: 23 Dec 2017

Performance & Approvals  
Accreditation No. 15393  
Accredited for compliance with ISO/IEC 17025.



## **TERMS AND CONDITIONS**

APL (Applied Physics Laboratory) in the production of this report is based on the material supplied by the customer.

The completion of the report does not imply that the samples supplied are a representative sample of the product tested.

The tests undertaken by APL were completed in accordance with the instructions received and were carried out using generally accepted standards of testing and information as supplied.

The tests and Test Report accompanying the tests have been completed and complied at the request of our customer we do not accept any responsibility on any ground whatever, including liability in negligence to any other person.


The report shall not be altered in any circumstances.

**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	213	214	308	362	455	621	829	1213	/									
2	256	257	305	369	439	586	630	973	/									
3	268	269	344	384	451	596	825	1032	/									

**TESTS**

TESTS	BURNING CHARACTERISTICS					SMOKE PRODUCTION		
	Specimen	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)			
Initial Test: Width		340	990	44	197			
Specimen Tests: Length								
1		380	1,705	53	197			
2		390	1,868	59	246			
3		400	1,735	42	253			
Mean		390	1,769	51	232			



**NATA**

ACCREDITED FOR  
**TECHNICAL  
COMPETENCE**



**M. B. Webb**  
Technical Manager

DATE: 23 Dec 2017

Performance and Approvals  
Accreditation No. 15393  
Accredited for compliance  
with ISO/IEC 17025.

2004 04 09 12199 23 December 2017

## **TERMS AND CONDITIONS**

**APL (Applied Physics Laboratory) in the production of this report is based on the material supplied by the customer.**

**The completion of the report does not imply that the samples supplied are a representative sample of the product tested.**

**The tests undertaken by APL were completed in accordance with the instructions received and were carried out using generally accepted standards of testing and information as supplied.**

**The tests and Test Report accompanying the tests have been completed and complied at the request of our customer we do not accept any responsibility on any ground whatever, including liability in negligence to any other person.**

**The report shall not be altered in any circumstances.**