

METRICS SPK

Sample description as provided by customer

Pile weight mass/unit area **24 oz/yd²**

Construction Details **Tufted** Secondary Backing **Tile Enviro Bac**

Style **Loop Pile**

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

Order No. **APL 10 B**

Pile Fibre Content **100% NYLON**

Colour **Grey/ Charcoal**

Pile Height **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 **Nov 2017**

Test Date **23/11/2017**

Total Thickness **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 **8.7 kW/m²**
Width Direction Critical Radiant Flux **6.6 kW/m²**

Specimen Tests conducted in the Width Direction				
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	6.6	7.8	7.2	7.2
Smoke Development Rate (%.min)	201	147	183	177

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 7.2 kW/m²

Mean Smoke Development Rate 177 %.min

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

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	DATE: 23/11/2017	
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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	225	226	316	362	502	620	749	/										
2	246	247	355	391	479	685	/											
3	172	173	260	329	443	630	/											

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: Length	240	786	30	119
Specimen Tests: Width				
1	330	970	57	201
2	280	1,136	47	147
3	305	1,240	50	183
Mean	305	1,115	51	177



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