

TANGO

Sample description as provided by customer
 Pile weight mass/unit area 690 g/m²
 Construction Details Tufted Secondary Backing Synthetic
 Style Cut Pile

Order No. M
 Pile Fibre Content 100% SOLUTION DYED NYLON
 Colour Fawn
 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 Apr 2017 Test Date 15 May 2017 Total Thickness mm

Assembly System: DIRECT STICK Roberts 95.

The floor covering was directly stuck to the substrate using Roberts 95 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 5.3 kW/m²
 Width Direction Critical Radiant Flux 4.9 kW/m²

	Specimen Tests conducted in the Width Direction			
	Specimen #1	Specimen #2	Specimen #3	Mean
Critical Radiant Flux (kW/m ²)	4.9	5.3	5.5	5.2
Smoke Development Rate (%.min)	63	100	72	78

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 5.2 kW/m²

Mean Smoke Development Rate 78 %.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.

	M. B. Webb Technical Manager	
	DATE: 15 May 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	232	233	584	866	1007	1154	1332	1753	2521	/								
2	251	252	713	988	1090	1402	1603	2013	/									
3	357	359	881	937	1219	1563	1791	2307	/									

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	390	2,152	15	67
Specimen Tests: Width				
1	410	2,560	10	63
2	390	2,404	23	100
3	380	2,579	12	72
Mean	393	2,514	15	78



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