

## ARMALON NG

Sample description as provided by customer  
2.0 mm Thick SHEET VINYL

Order No. 119439

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 Aug 2017

Test Date 07 Sep 2017

Total Thickness mm

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

The floor covering was directly stuck to the substrate using Vinyl 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 **12.0 kW/m<sup>2</sup>**  
Width Direction Critical Radiant Flux **12.0 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> )	12.0	11.6	10.6	11.4
Smoke Development Rate (%.min)	25	37	44	35

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 11.4 kW/m<sup>2</sup>**

**Mean Smoke Development Rate 35 %.min**

Observations: The samples shrunk away from the heat source, ignited and burnt a very 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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(v5-0, 11/03/2017)

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	DATE: 07 Sep 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	197	198	/															
2	191	192	/															
3	193	194	246															

**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	60	752	18	28
Specimen Tests: Length				
1	60	753	19	25
2	80	744	21	37
3	140	781	91	44
Mean	93	759	44	35



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