

CUSTOMER REFERENCE

## BOLON Woven Vinyl ELLIPTICAL Yarn Construction

Sample description as provided by customer

**Bolon Woven Vinyl Elliptical Yarn Construction ( Graphic/Eight/Spekta designs ) Weight 3.0kg/m<sup>2</sup> Thickness 2.5mm**

**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 values 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 **May 2012**

Test Date **14 Jun 2012**

### ASSEMBLY SYSTEM: DIRECT STICK Mapei ECO 350 Acrylic .

The floor covering was directly stuck to the substrate using **Mapei ECO 350 Acrylic** adhesive.

**Substrate: Non-Combustible**

**Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.**

The Holding Torque on Specimen Frame was 2Nm.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **8.3 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **8.5 kW/m<sup>2</sup>**  
Full tests carried out in the **Length** Direction



SPECIMEN	Length #1	Length #2	Length #3	Mean
Critical Radiant Flux (kW/m <sup>2</sup> )	<b>8.3</b>	<b>7.9</b>	<b>7.7</b>	<b>8.0</b>
Smoke Development Rate (%.min)	<b>173</b>	<b>194</b>	<b>201</b>	<b>189</b>

*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/Extinguishment (BCA General Provisions A1.1).*

### MEAN CRITICAL RADIANT FLUX **8.0 kW/m<sup>2</sup>**

### MEAN SMOKE DEVELOPMENT RATE **189 percent-minutes**

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

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	DATE: 14 Jun 2012	
	Measurement Science & Technology No. 15393 Accredited for compliance with ISO/IEC 17025.	

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This Page (1) has been designed to show the values required under Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

The values on Page 2 have no relevance to the Code.

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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	134	136	148	184	232	/												
2	136	138	156	183	214	273	/											
3	135	137	155	179	231	254	/											

**TESTS**

**SMOKE PRODUCTION**

**BURNING CHARACTERISTICS**

Specimen	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length (mm) at Flame Out/ Extinguishment	Time To Burn Out (s)
Initial Test: <b>Width</b>	72	171	230	721
Specimen Tests: <b>Length</b>				
1	75	173	240	721
2	80	194	260	727
3	86	201	270	722
<b>Mean</b>	80	189	257	723



**NATA**

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**M. B. Webb**  
Technical Manager

DATE: 14 Jun 2012

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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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