



## TEST REPORT

Client: Interface Australia PTY LTD  
34 Airds Road  
Minto NSW 2566

Test Report No: D11-19-057  
Sample Received date: 24/10/2019  
Test Date: 29/10/2019  
Report Date: 04/10/2019

Sample Description: Client Reference: "AERIAL AE315"  
100% Solution Dyed Nylon 6  
543g/m<sup>2</sup> on a CushionBacRE Backing

AS ISO 9239.1: Reaction to Fire Tests for Floorings – Determination of the Burning Behaviour Using a Radiant Heat Source

### Results Summary

CHF Value	Sample 1	Sample 2	Sample 3	Mean	
Length	3.5	-	-	-	kW/m <sup>2</sup>
Width	3.2	3.0	2.5	2.9	kW/m <sup>2</sup>
Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	215	-	-	-	%.min
Width	254	244	243	247	%.min

Melting Yes  
Blistering Yes

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 sole criterion for assessing the potential fire hazard of the product in use.

Sample was conditioned in accordance with BS EN 13238 at a temperature of 23±2°C and relative humidity of 50±5% for a minimum of 48 hours prior to testing.

Each Specimen was adhered to a substrate of 9mm thick fibre cement board using Intertac adhesive.



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### Sample 1 Length

### Test Results

Time to ignition	: 2 minutes 39 seconds (159 s)
Time to flameout	: 47 minutes 18 seconds (2838 s)
Extent of burning (mm)	: 510
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.45
HF-10 (kW/m <sup>2</sup> )	: 5.79
HF-20 (kW/m <sup>2</sup> )	: 4.62
HF-30 (kW/m <sup>2</sup> )	: 3.86
Flame spread at 10 minutes (mm)	: 370
Flame spread at 20 minutes (mm)	: 430
Flame spread at 30 minutes (mm)	: 480
Peak light attenuation (%)	: 66.98
Time to peak light attenuation	: 4 minutes 36 seconds (276 s)
Total integrated smoke (%.min)	: 214.55



# SYDNEY CARPET LABORATORY

OF INTERFACE AUST. PTY LIMITED - ABN 39 000 692 026

34 AIRDS ROAD, MINTO NSW 2566 - TEL: (02) 8706 4600 FAX: (02) 8706 4617

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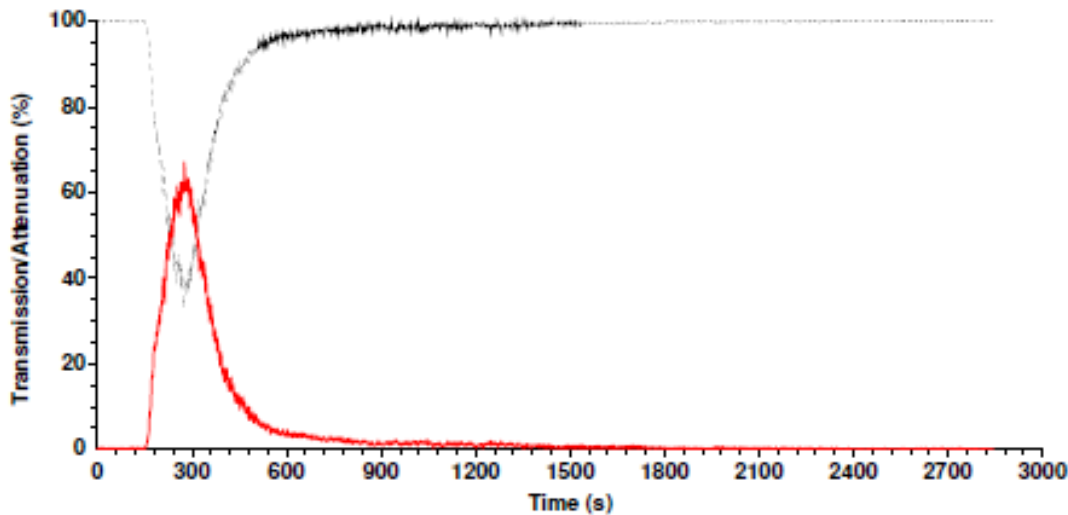
### Sample 1 Length

### Light Attenuation Over Time and Rake Results

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#### Smoke Graph



Test name : LENGTH1  
File name : C:\FRPSOFT\DATA\19100034.CSV

#### Rake Results

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )
60	167	12.1	2.025	510	2221	3.5	7.665
110	184	11.2	2.058	560	-	2.8	-
160	226	10.4	2.340	610	-	2.4	-
210	240	9.4	2.257	660	-	2.0	-
260	257	8.2	2.116	710	-	1.7	-
310	329	7.1	2.342	760	-	1.4	-
360	573	6.0	3.435	810	-	1.3	-
410	1052	4.9	5.206	860	-	1.1	-
460	1640	4.1	6.773	910	-	1.0	-



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### Sample 1 Width

### Test Results

Time to ignition	: 2 minutes 27 seconds (147 s)
Time to flameout	: 53 minutes 28 seconds (3208 s)
Extent of burning (mm)	: 530
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.21
HF-10 (kW/m <sup>2</sup> )	: 5.58
HF-20 (kW/m <sup>2</sup> )	: 4.13
HF-30 (kW/m <sup>2</sup> )	: 3.59
Flame spread at 10 minutes (mm)	: 380
Flame spread at 20 minutes (mm)	: 460
Flame spread at 30 minutes (mm)	: 500
Peak light attenuation (%)	: 67.28
Time to peak light attenuation	: 4 minutes 48 seconds (288 s)
Total integrated smoke (%.min)	: 253.53



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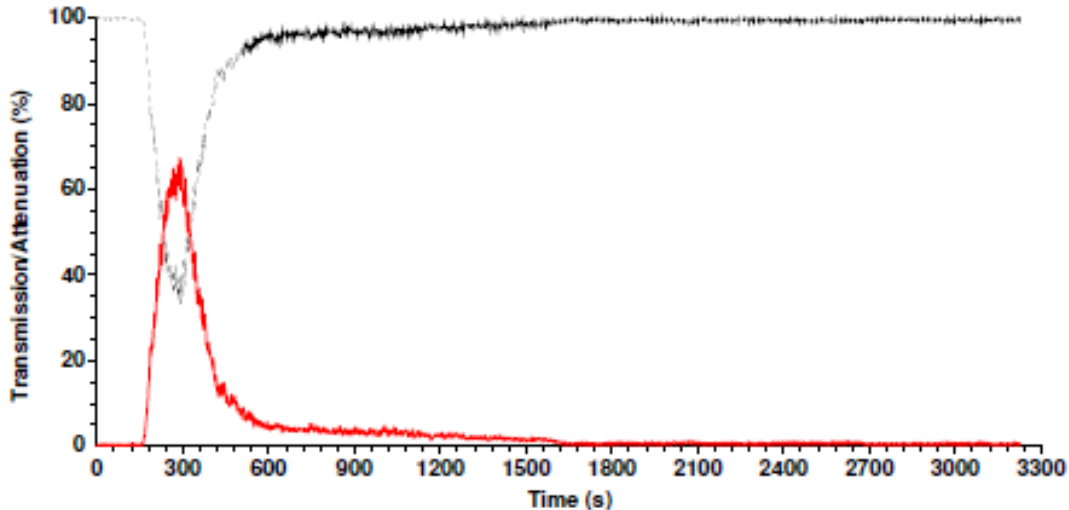
### Sample 1 Width

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### Smoke Graph



Test name : WIDTH1  
File name : C:\FRPSOFT\DATA\19100035.CSV

### Rake Results

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )
60	153	12.1	1.855	510	1958	3.5	6.757
110	197	11.2	2.203	560	-	2.8	-
160	230	10.4	2.381	610	-	2.4	-
210	247	9.4	2.323	660	-	2.0	-
260	260	8.2	2.140	710	-	1.7	-
310	348	7.1	2.477	760	-	1.4	-
360	474	6.0	2.841	810	-	1.3	-
410	823	4.9	4.073	860	-	1.1	-
460	1190	4.1	4.915	910	-	1.0	-



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### Sample 2 Width

### Test Results

Time to ignition	: 2 minutes 22 seconds (142 s)
Time to flameout	: 44 minutes 02 seconds (2642 s)
Extent of burning (mm)	: 550
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 2.97
HF-10 (kW/m <sup>2</sup> )	: 5.58
HF-20 (kW/m <sup>2</sup> )	: 3.72
HF-30 (kW/m <sup>2</sup> )	: 3.21
Flame spread at 10 minutes (mm)	: 380
Flame spread at 20 minutes (mm)	: 490
Flame spread at 30 minutes (mm)	: 530
Peak light attenuation (%)	: 67.57
Time to peak light attenuation	: 4 minutes 08 seconds (248 s)
Total integrated smoke (%.min)	: 243.6



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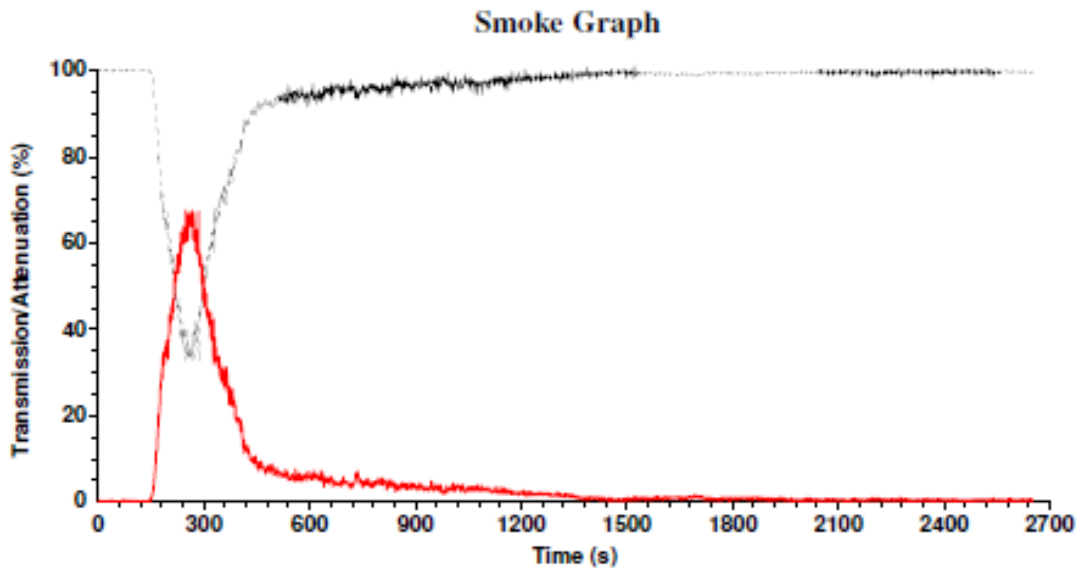
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### Sample 2 Width

### Light Attenuation Over Time and Rake Results

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Test name : WIDTH2  
File name : C:\FRPSOFT\DATA\19100036.CSV

### **Rake Results**

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )
60	148	12.1	1.794	510	1453	3.5	5.014
110	176	11.2	1.968	560	-	2.8	-
160	213	10.4	2.205	610	-	2.4	-
210	225	9.4	2.116	660	-	2.0	-
260	231	8.2	1.902	710	-	1.7	-
310	301	7.1	2.143	760	-	1.4	-
360	511	6.0	3.063	810	-	1.3	-
410	734	4.9	3.633	860	-	1.1	-
460	980	4.1	4.047	910	-	1.0	-



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### Sample 3 Width

### Test Results

Time to ignition	: 2 minutes 23 seconds (143 s)
Time to flameout	: 53 minutes 55 seconds (3235 s)
Extent of burning (mm)	: 600
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 2.46
HF-10 (kW/m <sup>2</sup> )	: 5.16
HF-20 (kW/m <sup>2</sup> )	: 3.72
HF-30 (kW/m <sup>2</sup> )	: 2.97
Flame spread at 10 minutes (mm)	: 400
Flame spread at 20 minutes (mm)	: 490
Flame spread at 30 minutes (mm)	: 550
Peak light attenuation (%)	: 69.15
Time to peak light attenuation	: 4 minutes 25 seconds (265 s)
Total integrated smoke (%.min)	: 243.25





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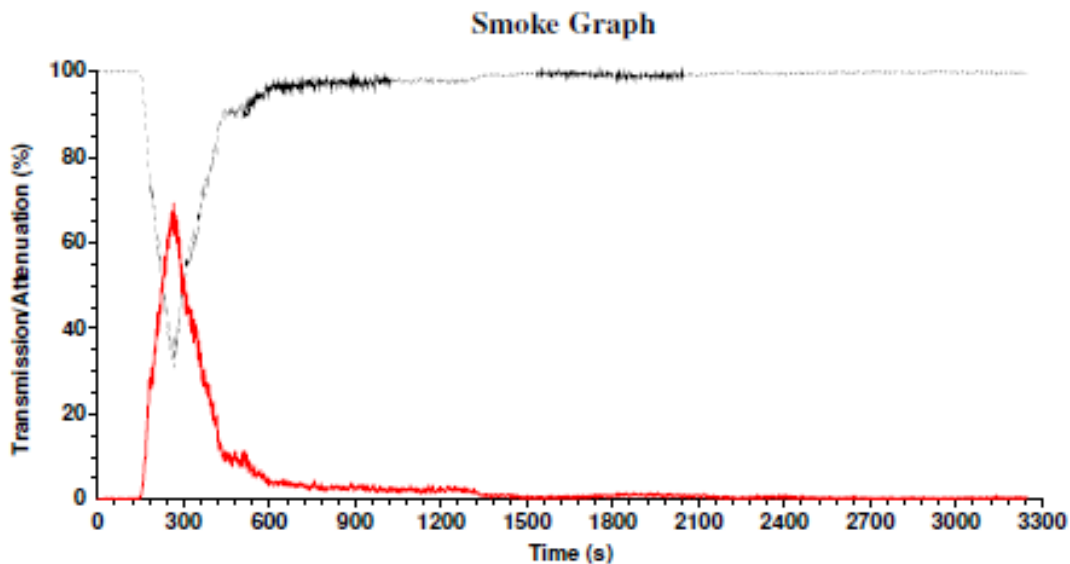
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### Sample 3 Width

### Light Attenuation Over Time and Rake Results

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Test name : WIDTH3  
File name : C:\FRPSOFT\DATA\19100037.CSV

### Rake Results

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )
60	147	12.1	1.782	510	1512	3.5	5.218
110	185	11.2	2.069	560	1961	2.8	5.581
160	227	10.4	2.350	610	-	2.4	-
210	240	9.4	2.257	660	-	2.0	-
260	245	8.2	2.017	710	-	1.7	-
310	330	7.1	2.349	760	-	1.4	-
360	395	6.0	2.368	810	-	1.3	-
410	666	4.9	3.296	860	-	1.1	-
460	1034	4.1	4.270	910	-	1.0	-

END OF REPORT