



## TEST REPORT

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

Test Report No: R21-137A  
Sample Received Date: 31/05/2021  
Test Date: 29/06/2021  
Report Date: 29/06/2021

Sample Description: Client Reference: "OPEN AIR 402"  
100% Solution Dyed Nylon 6  
610g/m<sup>2</sup> on a Glasbac Backing

AS ISO 9239.1-2003: 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	4.0	-	-	-	kW/m <sup>2</sup>
Width	3.7	3.7	4.0	3.8	kW/m <sup>2</sup>
Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	152	-	-	-	%.min
Width	200	156	177	178	%.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 Fibre Cement Board using Intertac Adhesive.



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### Sample 1 Length

#### Test Results

Time to ignition	: 2 minutes 26 seconds (146 s)
Time to flameout	: 42 minutes 54 seconds (2574 s)
Extent of burning (mm)	: 460
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 4.00
HF-10 (kW/m <sup>2</sup> )	: 9.20
HF-20 (kW/m <sup>2</sup> )	: 5.93
HF-30 (kW/m <sup>2</sup> )	: 4.51
Flame spread at 10 minutes (mm)	: 220
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 430
Peak light attenuation (%)	: 28.2
Time to peak light attenuation	: 6 minutes 09 seconds (369 s)
Total integrated smoke (%.min)	: 152.34



# SYDNEY CARPET LABORATORY

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

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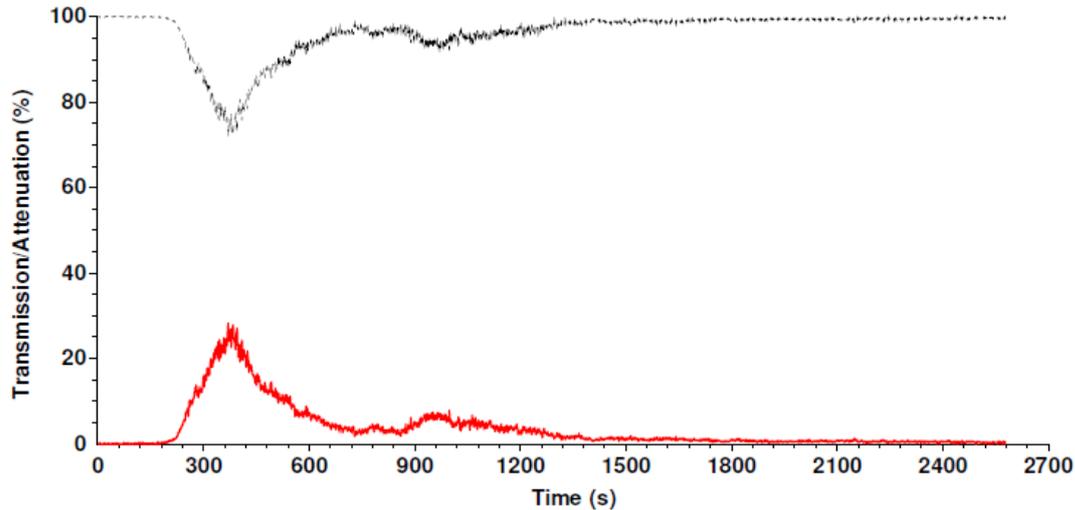
### Sample 1 Length

### Light Attenuation Over Time and Rake Results

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### Smoke Graph



Test name : LENGTH1  
File name : C:\FRPSOFT\DATA\21060033.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	237	12.3	2.926	510	-	3.3	-
110	322	11.3	3.653	560	-	2.7	-
160	435	10.5	4.548	610	-	2.3	-
210	490	9.4	4.629	660	-	1.9	-
260	792	8.2	6.524	710	-	1.6	-
310	1024	7.1	7.261	760	-	1.4	-
360	1191	5.9	7.065	810	-	1.2	-
410	1570	4.9	7.619	860	-	1.0	-
460	2296	4.0	9.177	910	-	0.9	-



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### Sample 1 Width

#### Test Results

Time to ignition	: 2 minutes 21 seconds (141 s)
Time to flameout	: 40 minutes 40 seconds (2440 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.71
HF-10 (kW/m <sup>2</sup> )	: 8.72
HF-20 (kW/m <sup>2</sup> )	: 5.93
HF-30 (kW/m <sup>2</sup> )	: 4.34
Flame spread at 10 minutes (mm)	: 240
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 440
Peak light attenuation (%)	: 39.98
Time to peak light attenuation	: 6 minutes 21 seconds (381 s)
Total integrated smoke (%.min)	: 200.46



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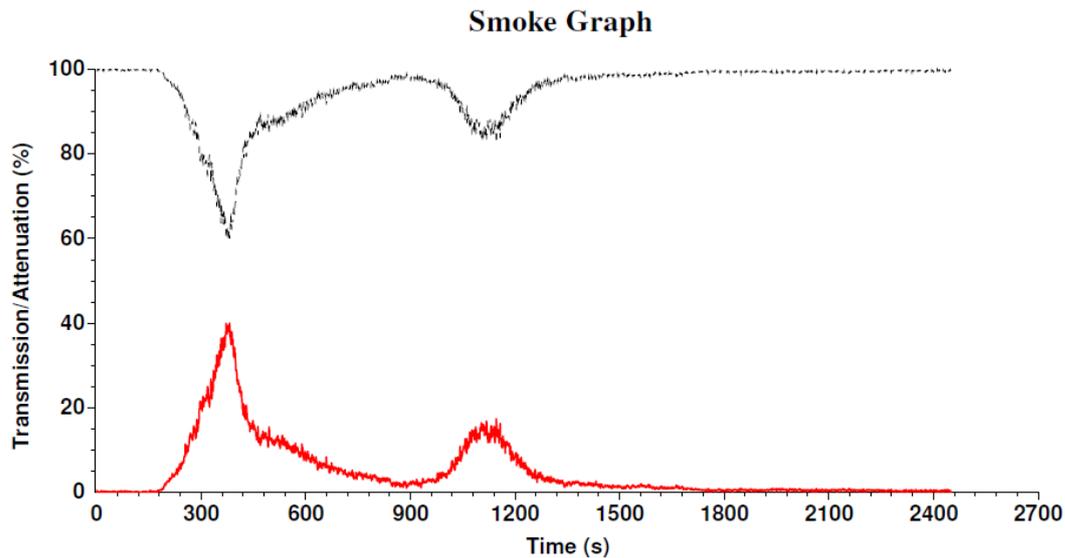
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### Sample 1 Width

### Light Attenuation Over Time and Rake Results

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Test name : WIDTH1  
File name : C:\FRPSOFT\DATA\21060034.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	212	12.3	2.617	510	-	3.3	-
110	334	11.3	3.790	560	-	2.7	-
160	366	10.5	3.827	610	-	2.3	-
210	460	9.4	4.345	660	-	1.9	-
260	774	8.2	6.376	710	-	1.6	-
310	1022	7.1	7.247	760	-	1.4	-
360	1189	5.9	7.053	810	-	1.2	-
410	1452	4.9	7.047	860	-	1.0	-
460	1992	4.0	7.962	910	-	0.9	-



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### Sample 2 Width

#### Test Results

Time to ignition	: 2 minutes 17 seconds (137 s)
Time to flameout	: 49 minutes 50 seconds (2990 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.71
HF-10 (kW/m <sup>2</sup> )	: 8.72
HF-20 (kW/m <sup>2</sup> )	: 5.93
HF-30 (kW/m <sup>2</sup> )	: 4.34
Flame spread at 10 minutes (mm)	: 240
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 440
Peak light attenuation (%)	: 30.33
Time to peak light attenuation	: 5 minutes 46 seconds (346 s)
Total integrated smoke (%.min)	: 155.51



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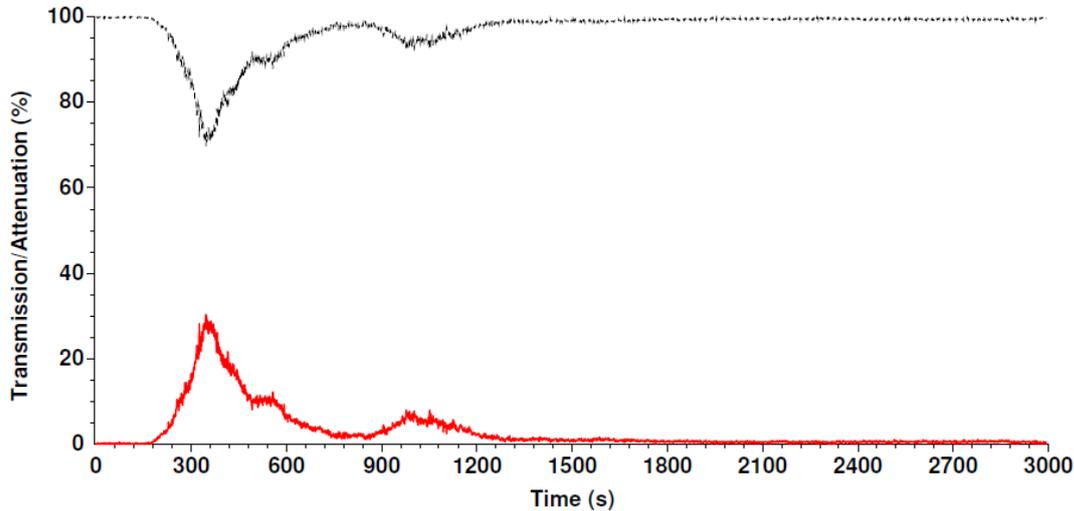
### Sample 2 Width

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### Smoke Graph



Test name : WIDTH2  
File name : C:\FRPSOFT\DATA\21060035.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	210	12.3	2.593	510	-	3.3	-
110	311	11.3	3.529	560	-	2.7	-
160	380	10.5	3.973	610	-	2.3	-
210	521	9.4	4.921	660	-	1.9	-
260	705	8.2	5.808	710	-	1.6	-
310	918	7.1	6.510	760	-	1.4	-
360	1191	5.9	7.065	810	-	1.2	-
410	1571	4.9	7.624	860	-	1.0	-
460	2426	4.0	9.697	910	-	0.9	-



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### Sample 3 Width

#### Test Results

Time to ignition	: 2 minutes 19 seconds (139 s)
Time to flameout	: 49 minutes 47 seconds (2987 s)
Extent of burning (mm)	: 460
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 4.00
HF-10 (kW/m <sup>2</sup> )	: 8.96
HF-20 (kW/m <sup>2</sup> )	: 6.16
HF-30 (kW/m <sup>2</sup> )	: 4.51
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 430
Peak light attenuation (%)	: 33.85
Time to peak light attenuation	: 6 minutes 37 seconds (397 s)
Total integrated smoke (%.min)	: 177.49



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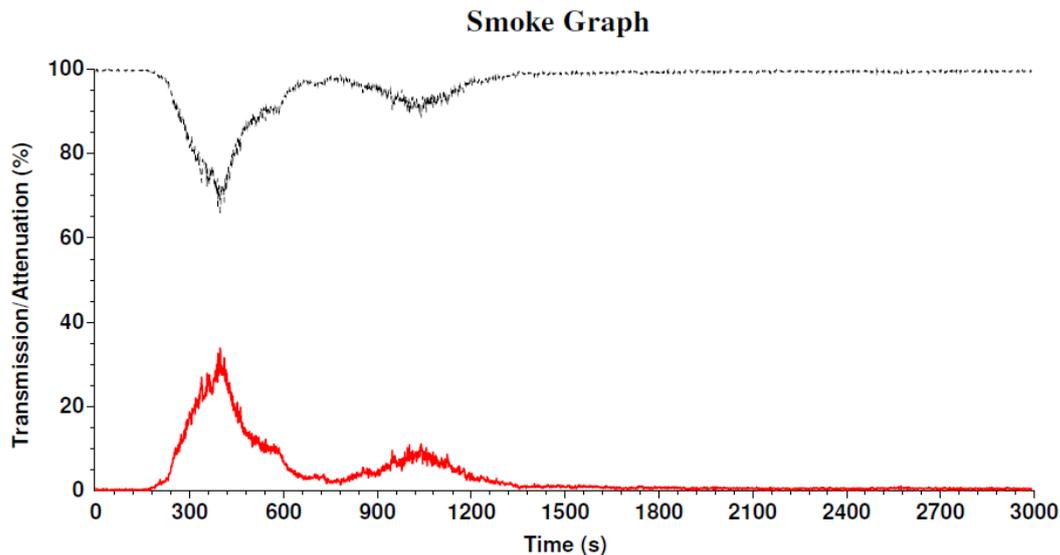
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### Sample 3 Width

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Test name : WIDTH3  
File name : C:\FRPSOFT\DATA\21060036.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	267	12.3	3.296	510	-	3.3	-
110	335	11.3	3.801	560	-	2.7	-
160	398	10.5	4.161	610	-	2.3	-
210	486	9.4	4.591	660	-	1.9	-
260	782	8.2	6.442	710	-	1.6	-
310	1000	7.1	7.091	760	-	1.4	-
360	1257	5.9	7.457	810	-	1.2	-
410	1638	4.9	7.949	860	-	1.0	-
460	2671	4.0	10.676	910	-	0.9	-

END OF REPORT

Accreditation No.2834.

Accredited for compliance with ISO/IEC 17025 - Testing

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APPROVED SIGNATORY MATERIALS SCIENTIST