



## TEST REPORT

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

Test Report No: R21-135  
Sample Received Date: 31/05/2021  
Test Date: 24/06/2021  
Report Date: 25/06/2021

Sample Description: Client Reference: "OPEN AIR 401"  
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	3.6	4.3	4.0	kW/m <sup>2</sup>
Width	4.7	-	-	-	kW/m <sup>2</sup>
Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	123	142	124	129	%.min
Width	156	-	-	-	%.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	: 43 minutes 10 seconds (2590 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> )	: 4.85
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 25.78
Time to peak light attenuation	: 6 minutes 22 seconds (382 s)
Total integrated smoke (%.min)	: 122.86



# 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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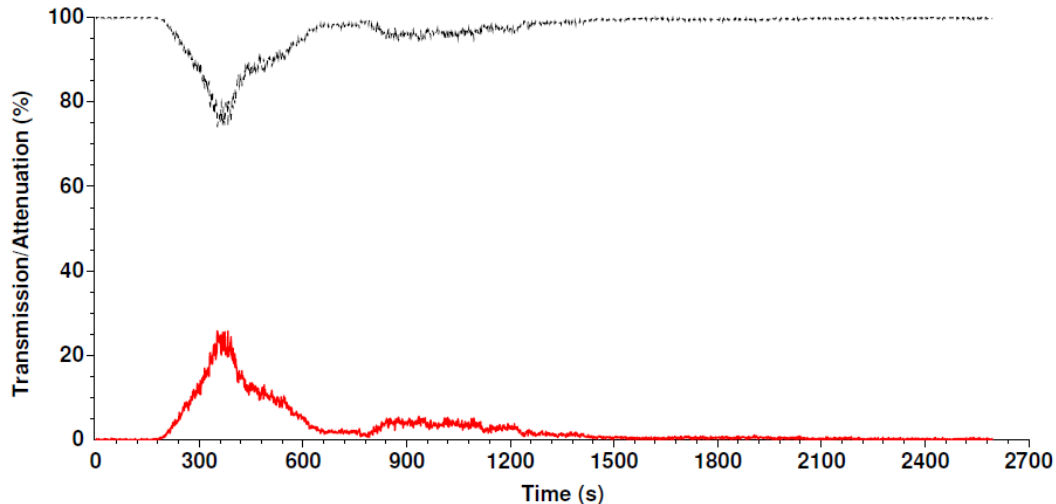
### Sample 1 Length

### Light Attenuation Over Time and Rake Results

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#### Smoke Graph



Test name : LENGTH1  
File name : C:\FRPSOFT\DATA\21060029.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	218	12.3	2.691	510	-	3.3	-
110	309	11.3	3.506	560	-	2.7	-
160	399	10.5	4.172	610	-	2.3	-
210	510	9.4	4.817	660	-	1.9	-
260	843	8.2	6.945	710	-	1.6	-
310	1027	7.1	7.282	760	-	1.4	-
360	1310	5.9	7.771	810	-	1.2	-
410	1769	4.9	8.585	860	-	1.0	-
460	2283	4.0	9.125	910	-	0.9	-



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### Sample 1 Width

#### Test Results

Time to ignition	: 2 minutes 20 seconds (140 s)
Time to flameout	: 35 minutes 33 seconds (2133 s)
Extent of burning (mm)	: 420
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 4.68
HF-10 (kW/m <sup>2</sup> )	: 9.20
HF-20 (kW/m <sup>2</sup> )	: 6.40
HF-30 (kW/m <sup>2</sup> )	: 4.68
Flame spread at 10 minutes (mm)	: 220
Flame spread at 20 minutes (mm)	: 340
Flame spread at 30 minutes (mm)	: 420
Peak light attenuation (%)	: 27.58
Time to peak light attenuation	: 6 minutes 47 seconds (407 s)
Total integrated smoke (%.min)	: 155.73



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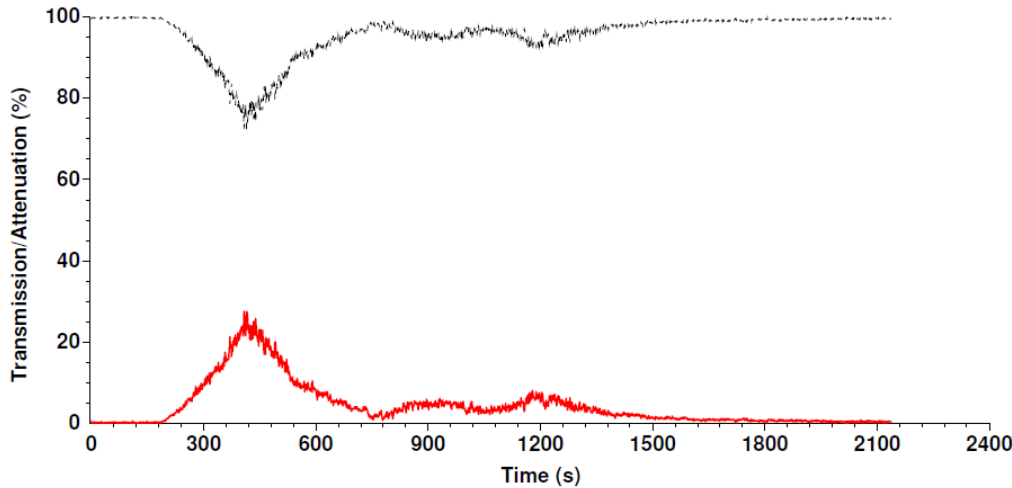
### Sample 1 Width

### Light Attenuation Over Time and Rake Results

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#### Smoke Graph



Test name : WIDTH1  
File name : C:\FRPSOFT\DATA\21060030.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	286	12.3	3.531	510	-	3.3	-
110	398	11.3	4.516	560	-	2.7	-
160	441	10.5	4.611	610	-	2.3	-
210	547	9.4	5.167	660	-	1.9	-
260	863	8.2	7.109	710	-	1.6	-
310	1036	7.1	7.346	760	-	1.4	-
360	1325	5.9	7.860	810	-	1.2	-
410	1634	4.9	7.930	860	-	1.0	-
460	-	4.0	-	910	-	0.9	-



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### Sample 2 Length

#### Test Results

Time to ignition	: 2 minutes 20 seconds (140 s)
Time to flameout	: 44 minutes 41 seconds (2681 s)
Extent of burning (mm)	: 490
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.57
HF-10 (kW/m <sup>2</sup> )	: 9.45
HF-20 (kW/m <sup>2</sup> )	: 6.16
HF-30 (kW/m <sup>2</sup> )	: 4.34
Flame spread at 10 minutes (mm)	: 210
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 440
Peak light attenuation (%)	: 30.41
Time to peak light attenuation	: 6 minutes 32 seconds (392 s)
Total integrated smoke (%.min)	: 141.57



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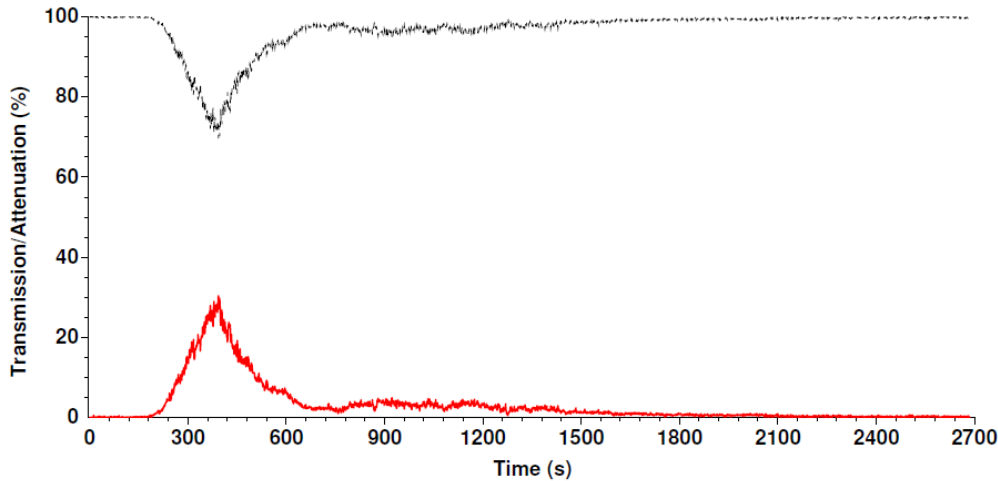
### Sample 2 Length

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#### Smoke Graph



Test name : LENGTH2

File name : C:\FRPSOFT\DATA\21060031.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	247	12.3	3.049	510	-	3.3	-
110	318	11.3	3.608	560	-	2.7	-
160	392	10.5	4.099	610	-	2.3	-
210	577	9.4	5.450	660	-	1.9	-
260	823	8.2	6.780	710	-	1.6	-
310	983	7.1	6.970	760	-	1.4	-
360	1234	5.9	7.320	810	-	1.2	-
410	1483	4.9	7.197	860	-	1.0	-
460	1981	4.0	7.918	910	-	0.9	-



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### Sample 3 Length

### Test Results

Time to ignition	: 2 minutes 30 seconds (150 s)
Time to flameout	: 50 minutes 44 seconds (3044 s)
Extent of burning (mm)	: 440
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 4.34
HF-10 (kW/m <sup>2</sup> )	: 9.45
HF-20 (kW/m <sup>2</sup> )	: 6.63
HF-30 (kW/m <sup>2</sup> )	: 5.07
Flame spread at 10 minutes (mm)	: 210
Flame spread at 20 minutes (mm)	: 330
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 22.17
Time to peak light attenuation	: 6 minutes 24 seconds (384 s)
Total integrated smoke (%.min)	: 123.87





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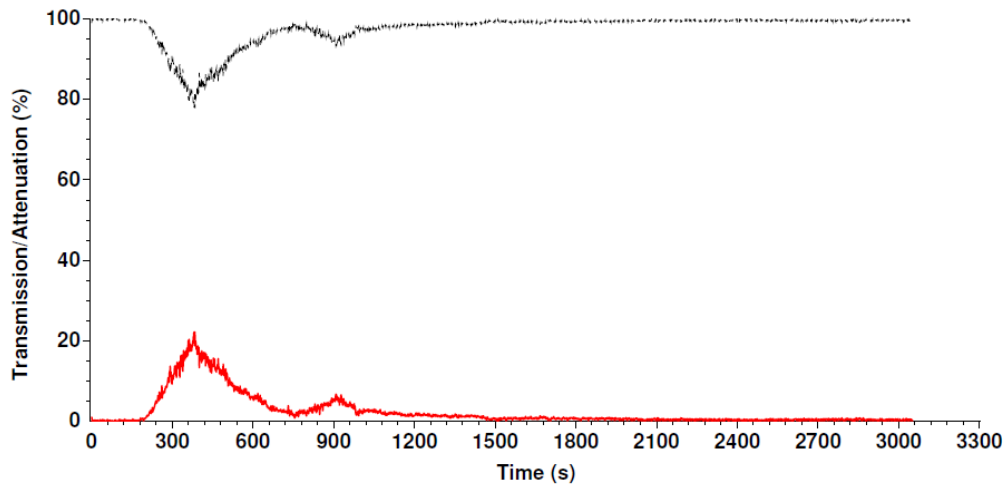
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#### Smoke Graph



Test name : LENGTH3  
File name : C:\FRPSOFT\DATA\21060032.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	253	12.3	3.124	510	-	3.3	-
110	335	11.3	3.801	560	-	2.7	-
160	426	10.5	4.454	610	-	2.3	-
210	573	9.4	5.413	660	-	1.9	-
260	878	8.2	7.233	710	-	1.6	-
310	1072	7.1	7.602	760	-	1.4	-
360	1471	5.9	8.726	810	-	1.2	-
410	1851	4.9	8.983	860	-	1.0	-
460	-	4.0	-	910	-	0.9	-

END OF REPORT