



TEST REPORT

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

Test Report No: R21-156
Sample Received Date: 31/05/2021
Test Date: 15/07/2021
Report Date: 15/07/2021

Sample Description: Client Reference: "OPEN AIR 404"
100% Solution Dyed Nylon 6
610g/m² 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	3.8	3.7	4.0	3.8	kW/m ²
Width	8.4	-	-	-	kW/m ²
Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	151	177	140	156	%.min
Width	115	-	-	-	%.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	: 47 minutes 53 seconds (2873 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m ²)	: 3.84
HF-10 (kW/m ²)	: 8.86
HF-20 (kW/m ²)	: 6.07
HF-30 (kW/m ²)	: 4.49
Flame spread at 10 minutes (mm)	: 240
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 440
Peak light attenuation (%)	: 38.67
Time to peak light attenuation	: 5 minutes 54 seconds (354 s)
Total integrated smoke (%.min)	: 151.25



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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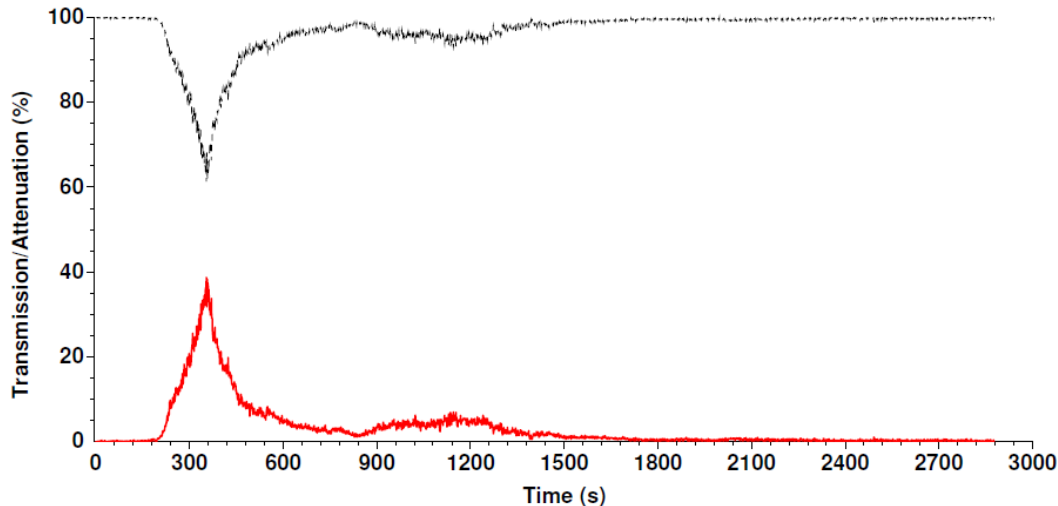
Sample 1 Length

Light Attenuation Over Time and Rake Results

Report produced with the Fire Testing Technology FRPSoft software

page 3

Smoke Graph



Test name : LENGTH1
File name : C:\FRPSOFT\DATA\21070013.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)	Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)
60	213	12.0	2.555	510	-	3.4	-
110	273	11.2	3.048	560	-	2.8	-
160	416	10.4	4.346	610	-	2.3	-
210	479	9.6	4.602	660	-	2.0	-
260	740	8.4	6.192	710	-	1.7	-
310	1020	7.2	7.331	760	-	1.4	-
360	1195	6.1	7.248	810	-	1.2	-
410	1472	5.0	7.394	860	-	1.1	-
460	1999	4.1	8.268	910	-	1.0	-



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Sample 1 Width

Test Results

Time to ignition : 2 minutes 32 seconds (152 s)
Time to flameout : 16 minutes 46 seconds (1006 s)
Extent of burning (mm) : 260
Critical flux at extinguishment (kW/m²) : 8.37
HF-10 (kW/m²) : 8.62
HF-20 (kW/m²) : Not calculated (test duration < 20 minutes)
HF-30 (kW/m²) : Not calculated (test duration < 30 minutes)
Flame spread at 10 minutes (mm) : 250
Flame spread at 20 minutes (mm) : Not measured
Flame spread at 30 minutes (mm) : Not measured
Peak light attenuation (%) : 38.48
Time to peak light attenuation : 6 minutes 12 seconds (372 s)
Total integrated smoke (%.min) : 114.59



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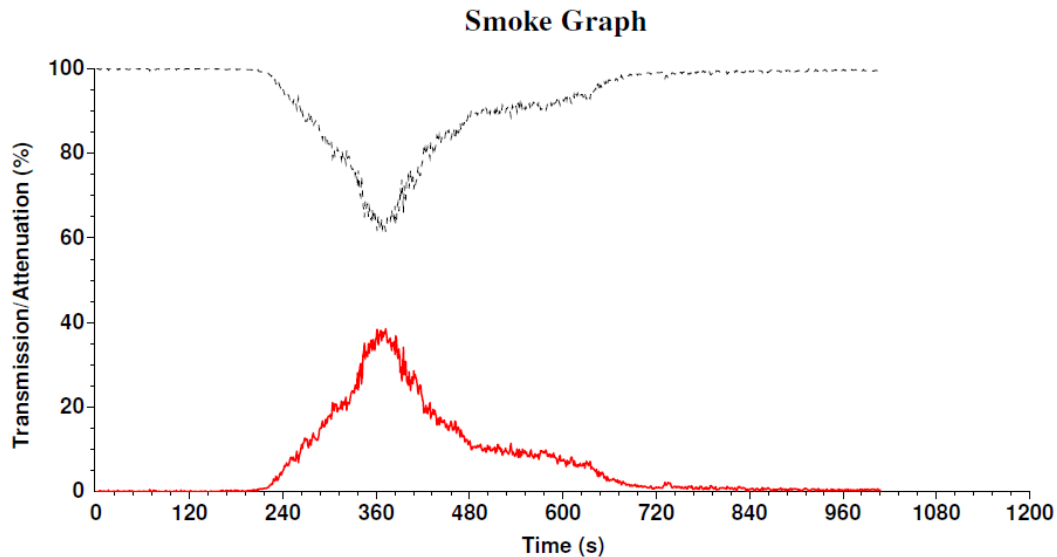
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Sample 1 Width

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page 3



Test name : WIDTH1
File name : C:\FRPSOFT\DATA\21070014.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)	Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)
60	198	12.0	2.375	510	-	3.4	-
110	288	11.2	3.216	560	-	2.8	-
160	381	10.4	3.980	610	-	2.3	-
210	466	9.6	4.477	660	-	2.0	-
260	737	8.4	6.166	710	-	1.7	-
310	-	7.2	-	760	-	1.4	-
360	-	6.1	-	810	-	1.2	-
410	-	5.0	-	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-



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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 20 seconds (140 s)
Time to flameout	: 47 minutes 32 seconds (2852 s)
Extent of burning (mm)	: 490
Critical flux at extinguishment (kW/m ²)	: 3.69
HF-10 (kW/m ²)	: 8.62
HF-20 (kW/m ²)	: 5.65
HF-30 (kW/m ²)	: 4.31
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 380
Flame spread at 30 minutes (mm)	: 450
Peak light attenuation (%)	: 41.96
Time to peak light attenuation	: 5 minutes 45 seconds (345 s)
Total integrated smoke (%.min)	: 177.46



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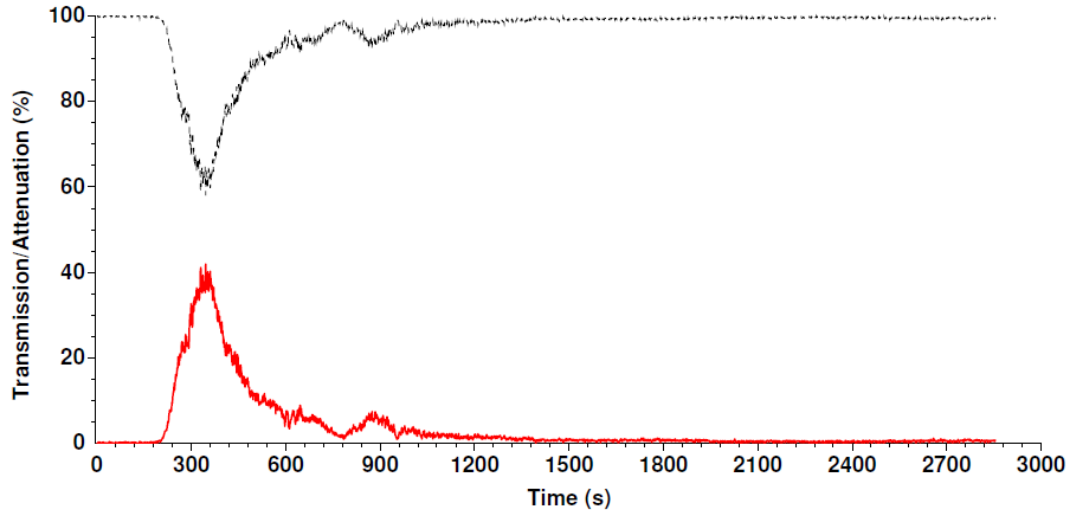
Sample 2 Length

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page 3

Smoke Graph



Test name : LENGTH2
File name : C:\FRPSOFT\DATA\21070015.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)	Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)
60	204	12.0	2.447	510	-	3.4	-
110	271	11.2	3.026	560	-	2.8	-
160	344	10.4	3.594	610	-	2.3	-
210	420	9.6	4.035	660	-	2.0	-
260	623	8.4	5.213	710	-	1.7	-
310	827	7.2	5.944	760	-	1.4	-
360	1011	6.1	6.132	810	-	1.2	-
410	1369	5.0	6.876	860	-	1.1	-
460	1953	4.1	8.078	910	-	1.0	-



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Sample 3 Length

Test Results

Time to ignition	: 2 minutes 30 seconds (150 s)
Time to flameout	: 44 minutes 38 seconds (2678 s)
Extent of burning (mm)	: 470
Critical flux at extinguishment (kW/m ²)	: 3.99
HF-10 (kW/m ²)	: 8.86
HF-20 (kW/m ²)	: 6.29
HF-30 (kW/m ²)	: 4.85
Flame spread at 10 minutes (mm)	: 240
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 420
Peak light attenuation (%)	: 36.59
Time to peak light attenuation	: 5 minutes 51 seconds (351 s)
Total integrated smoke (%.min)	: 139.77



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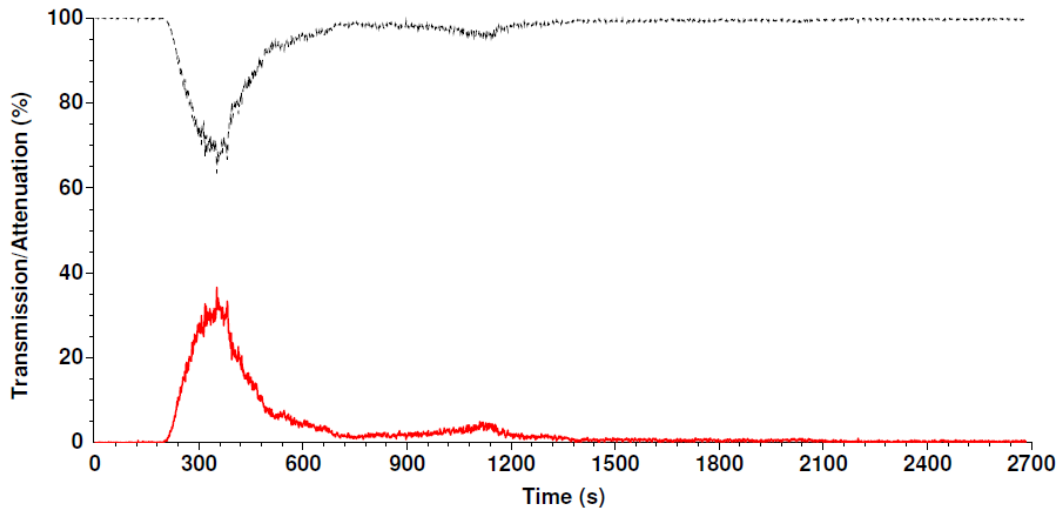
Sample 3 Length

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page 3

Smoke Graph



Test name : LENGTH3
File name : C:\FRPSOFT\DATA\21070016.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)	Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)
60	229	12.0	2.747	510	-	3.4	-
110	256	11.2	2.858	560	-	2.8	-
160	344	10.4	3.594	610	-	2.3	-
210	434	9.6	4.170	660	-	2.0	-
260	696	8.4	5.823	710	-	1.7	-
310	1042	7.2	7.489	760	-	1.4	-
360	1278	6.1	7.751	810	-	1.2	-
410	1671	5.0	8.393	860	-	1.1	-
460	2163	4.1	8.946	910	-	1.0	-

END OF REPORT