



TEST REPORT

Sample Manufacturing: Interface Australia PTY LTD
34 Airds Road Minto
NSW 2566
Australia

Test Report No: R22-395
Sample Received Date: 2/09/2022
Test Date: 19/10/2022
Report Date: 20/10/2022

Sample Description: Client Reference: "UNDULATING WATER"
Loop Pile Carpet Tile
100% Solution Dyed Nylon 6
1153g/m² on a Glasbac Backing

Test Sponsor: Interface Australia

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	4.4	5.1	4.6	4.7	kW/m ²
Width	4.4	-	-	-	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	231	246	203	226	%.min
Width	281	-	-	-	%.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 72 hours prior to testing, which is inclusive of adhesive curing time.

Each Specimen was adhered to a substrate of 9mm Fibre Cement Board using Intertac+ Adhesive.

KARTHIK BHASKARAN
Materials Scientist

APPROVED SIGNATORY



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Sample 1 Length

Test Results

Time to ignition	: 2 minutes 11 seconds (131 s)
Time to flameout	: 49 minutes 16 seconds (2956 s)
Extent of burning (mm)	: 440
Critical flux at extinguishment (kW/m ²)	: 4.38
HF-10 (kW/m ²)	: 7.55
HF-20 (kW/m ²)	: 5.95
HF-30 (kW/m ²)	: 5.10
Flame spread at 10 minutes (mm)	: 290
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 44.6
Time to peak light attenuation	: 8 minutes 12 seconds (492 s)
Total integrated smoke (%.min)	: 231.25



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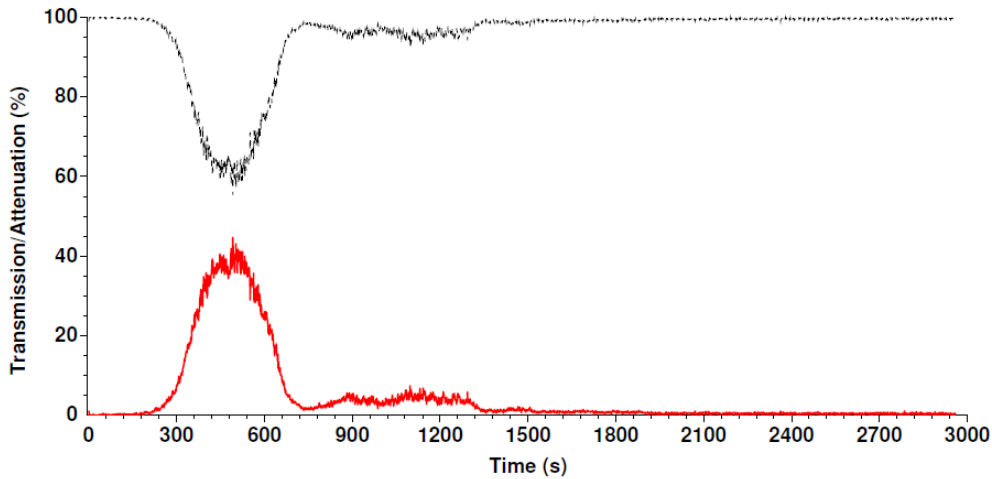
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Sample 1 Length
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\22100033.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	265	12.3	3.272	510	-	3.4	-
110	371	11.3	4.201	560	-	2.8	-
160	420	10.4	4.373	610	-	2.4	-
210	452	9.4	4.240	660	-	2.0	-
260	487	8.2	3.999	710	-	1.6	-
310	769	7.1	5.462	760	-	1.4	-
360	1248	6.0	7.429	810	-	1.3	-
410	1846	4.9	9.014	860	-	1.2	-
460	-	4.1	-	910	-	1.0	-



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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 13 seconds (133 s)
Time to flameout	: 54 minutes 02 seconds (3242 s)
Extent of burning (mm)	: 440
Critical flux at extinguishment (kW/m ²)	: 4.38
HF-10 (kW/m ²)	: 8.21
HF-20 (kW/m ²)	: 5.95
HF-30 (kW/m ²)	: 5.10
Flame spread at 10 minutes (mm)	: 260
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 38.45
Time to peak light attenuation	: 8 minutes 25 seconds (505 s)
Total integrated smoke (%.min)	: 280.79



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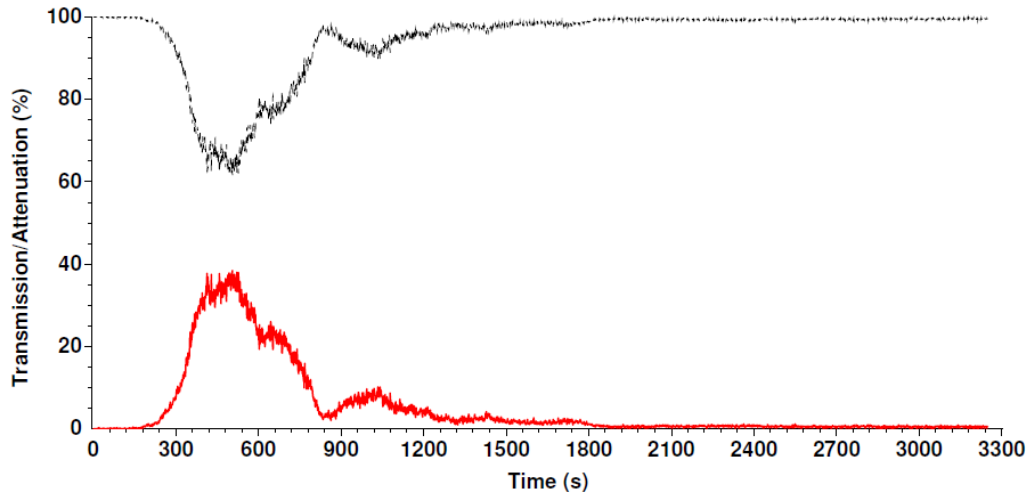
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Sample 1 Width
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\22100034.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	255	12.3	3.148	510	-	3.4	-
110	350	11.3	3.963	560	-	2.8	-
160	416	10.4	4.331	610	-	2.4	-
210	518	9.4	4.859	660	-	2.0	-
260	577	8.2	4.738	710	-	1.6	-
310	904	7.1	6.421	760	-	1.4	-
360	1198	6.0	7.132	810	-	1.3	-
410	1947	4.9	9.507	860	-	1.2	-
460	-	4.1	-	910	-	1.0	-



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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 26 seconds (146 s)
Time to flameout	: 32 minutes 48 seconds (1968 s)
Extent of burning (mm)	: 400
Critical flux at extinguishment (kW/m ²)	: 5.10
HF-10 (kW/m ²)	: 7.10
HF-20 (kW/m ²)	: 5.53
HF-30 (kW/m ²)	: 5.31
Flame spread at 10 minutes (mm)	: 310
Flame spread at 20 minutes (mm)	: 380
Flame spread at 30 minutes (mm)	: 390
Peak light attenuation (%)	: 54.72
Time to peak light attenuation	: 7 minutes 28 seconds (448 s)
Total integrated smoke (%.min)	: 245.54



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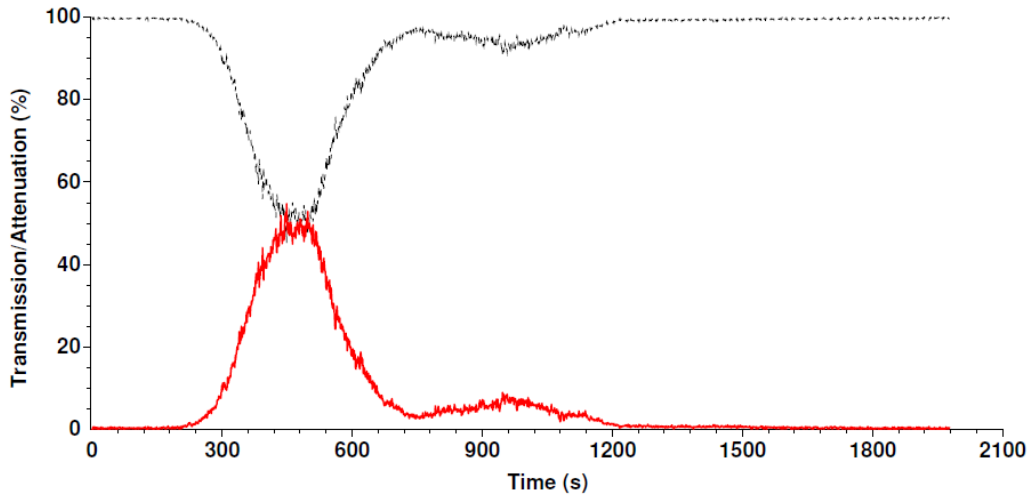
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Sample 2 Length
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Smoke Graph



Test name : LENGTH2
 File name : C:\FRPSOFT\DATA\22100035.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	218	12.3	2.691	510	-	3.4	-
110	316	11.3	3.578	560	-	2.8	-
160	385	10.4	4.009	610	-	2.4	-
210	418	9.4	3.921	660	-	2.0	-
260	446	8.2	3.663	710	-	1.6	-
310	578	7.1	4.106	760	-	1.4	-
360	1037	6.0	6.173	810	-	1.3	-
410	-	4.9	-	860	-	1.2	-
460	-	4.1	-	910	-	1.0	-



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Sample 3 Length

Test Results

Time to ignition	: 2 minutes 17 seconds (137 s)
Time to flameout	: 51 minutes 58 seconds (3118 s)
Extent of burning (mm)	: 430
Critical flux at extinguishment (kW/m ²)	: 4.55
HF-10 (kW/m ²)	: 7.32
HF-20 (kW/m ²)	: 5.95
HF-30 (kW/m ²)	: 5.31
Flame spread at 10 minutes (mm)	: 300
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 390
Peak light attenuation (%)	: 45.84
Time to peak light attenuation	: 6 minutes 45 seconds (405 s)
Total integrated smoke (%.min)	: 202.63



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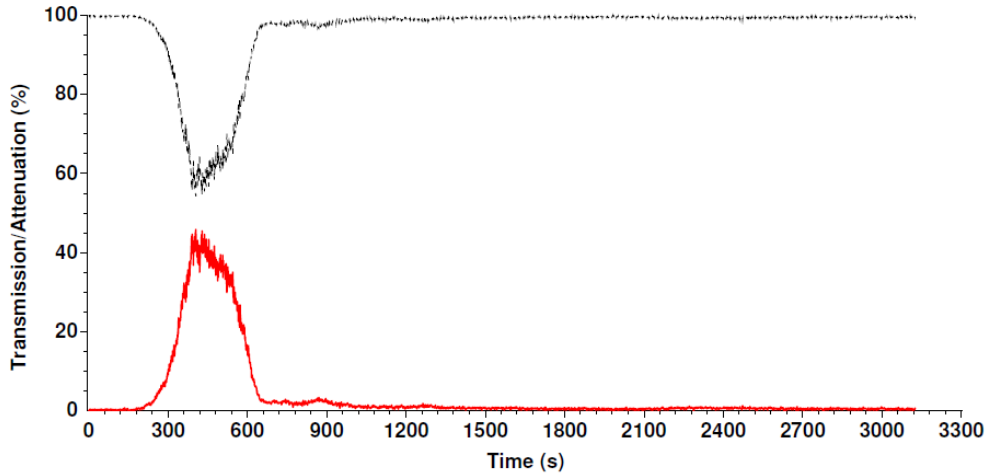
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Sample 3 Length
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Smoke Graph



Test name : LENGTH3
 File name : C:\FRPSOFT\DATA\22100036.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	216	12.3	2.667	510	-	3.4	-
110	307	11.3	3.476	560	-	2.8	-
160	354	10.4	3.686	610	-	2.4	-
210	399	9.4	3.743	660	-	2.0	-
260	423	8.2	3.474	710	-	1.6	-
310	622	7.1	4.418	760	-	1.4	-
360	1146	6.0	6.822	810	-	1.3	-
410	2303	4.9	11.246	860	-	1.2	-
460	-	4.1	-	910	-	1.0	-

END OF REPORT