



TEST REPORT

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

Test Report No: R22-398
Sample Received Date: 2/09/2022
Test Date: 24/10/2022
Report Date: 25/10/2022

Sample Description: Client Reference: "ESCARPMENT"
Loop Pile Carpet Tile
100% Solution Dyed Nylon 6
644g/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	3.8	3.8	8.3	5.3	kW/m ²
Width	4.3	-	-	-	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	179	162	132	158	%.min
Width	189	-	-	-	%.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 12 seconds (132 s)
Time to flameout	: 44 minutes 38 seconds (2678 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m ²)	: 3.83
HF-10 (kW/m ²)	: 9.07
HF-20 (kW/m ²)	: 6.50
HF-30 (kW/m ²)	: 4.82
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 340
Flame spread at 30 minutes (mm)	: 420
Peak light attenuation (%)	: 29.36
Time to peak light attenuation	: 6 minutes 06 seconds (366 s)
Total integrated smoke (%.min)	: 179.07



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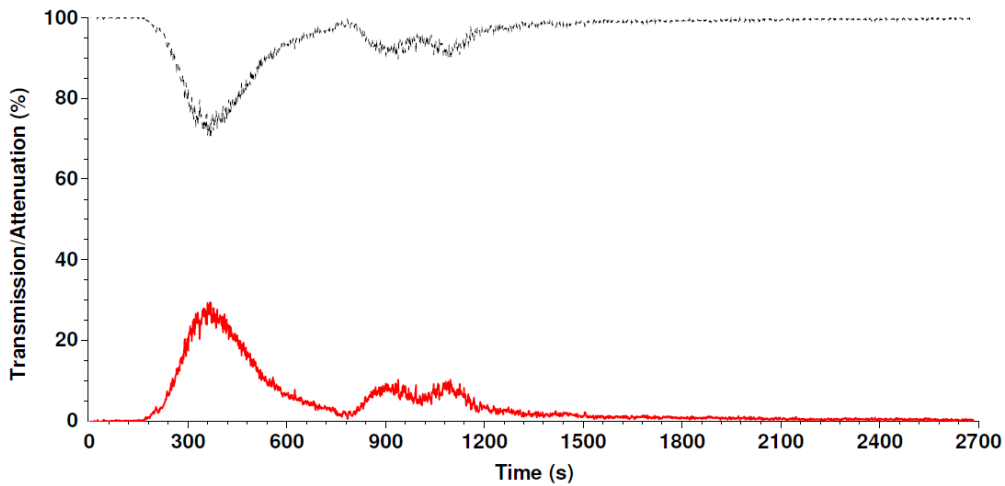
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Sample 1 Length
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\22100037.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	222	12.3	2.723	510	-	3.4	-
110	303	11.3	3.433	560	-	2.8	-
160	381	10.5	4.002	610	-	2.3	-
210	489	9.6	4.674	660	-	2.0	-
260	750	8.3	6.254	710	-	1.7	-
310	987	7.2	7.085	760	-	1.4	-
360	1284	6.0	7.766	810	-	1.3	-
410	1678	5.0	8.387	860	-	1.1	-
460	2196	4.1	9.063	910	-	1.0	-



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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 11 seconds (131 s)
Time to flameout	: 50 minutes 56 seconds (3056 s)
Extent of burning (mm)	: 450
Critical flux at extinguishment (kW/m ²)	: 4.30
HF-10 (kW/m ²)	: 8.83
HF-20 (kW/m ²)	: 6.50
HF-30 (kW/m ²)	: 5.00
Flame spread at 10 minutes (mm)	: 240
Flame spread at 20 minutes (mm)	: 340
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 30.52
Time to peak light attenuation	: 6 minutes 22 seconds (382 s)
Total integrated smoke (%.min)	: 189.01



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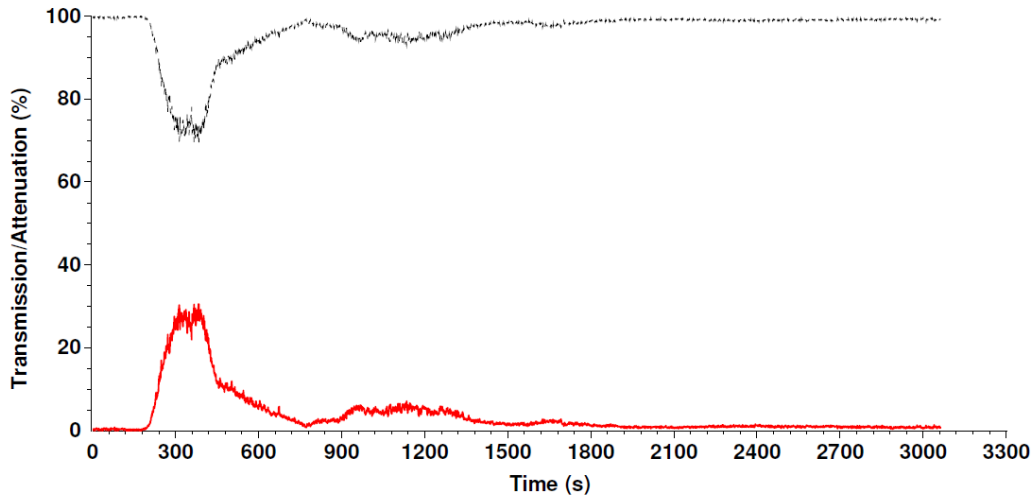
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Sample 1 Width
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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\22100038.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	12.3	2.502	510	-	3.4	-
110	329	11.3	3.728	560	-	2.8	-
160	434	10.5	4.559	610	-	2.3	-
210	491	9.6	4.693	660	-	2.0	-
260	726	8.3	6.054	710	-	1.7	-
310	1038	7.2	7.451	760	-	1.4	-
360	1426	6.0	8.624	810	-	1.3	-
410	1792	5.0	8.956	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-



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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 15 seconds (135 s)
Time to flameout	: 60 minutes 03 seconds (3603 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m ²)	: 3.83
HF-10 (kW/m ²)	: 9.07
HF-20 (kW/m ²)	: 6.73
HF-30 (kW/m ²)	: 5.21
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 330
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 27.29
Time to peak light attenuation	: 6 minutes 23 seconds (383 s)
Total integrated smoke (%.min)	: 162



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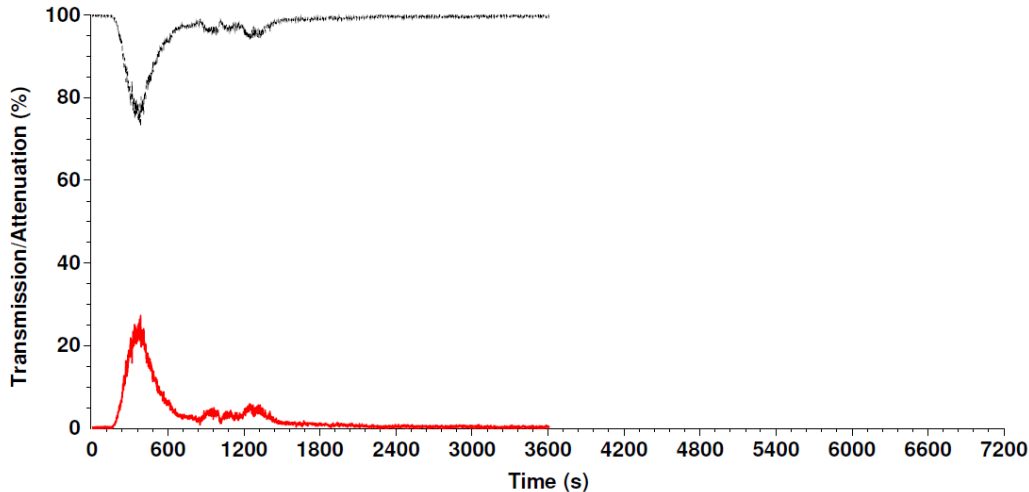
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Sample 2 Length
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Smoke Graph



Test name : LENGTH2
 File name : C:\FRPSOFT\DATA\22100039.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	215	12.3	2.637	510	-	3.4	-
110	299	11.3	3.388	560	-	2.8	-
160	375	10.5	3.939	610	-	2.3	-
210	494	9.6	4.722	660	-	2.0	-
260	724	8.3	6.037	710	-	1.7	-
310	1085	7.2	7.788	760	-	1.4	-
360	1341	6.0	8.110	810	-	1.3	-
410	1821	5.0	9.101	860	-	1.1	-
460	2484	4.1	10.251	910	-	1.0	-



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Sample 3 Length

Test Results

Time to ignition	: 2 minutes 16 seconds (136 s)
Time to flameout	: 15 minutes 20 seconds (920 s)
Extent of burning (mm)	: 260
Critical flux at extinguishment (kW/m ²)	: 8.34
HF-10 (kW/m ²)	: 8.34
HF-20 (kW/m ²)	: Not calculated (test duration < 20 minutes)
HF-30 (kW/m ²)	: Not calculated (test duration < 30 minutes)
Flame spread at 10 minutes (mm)	: 260
Flame spread at 20 minutes (mm)	: Not measured
Flame spread at 30 minutes (mm)	: Not measured
Peak light attenuation (%)	: 37.02
Time to peak light attenuation	: 5 minutes 55 seconds (355 s)
Total integrated smoke (%.min)	: 132.15



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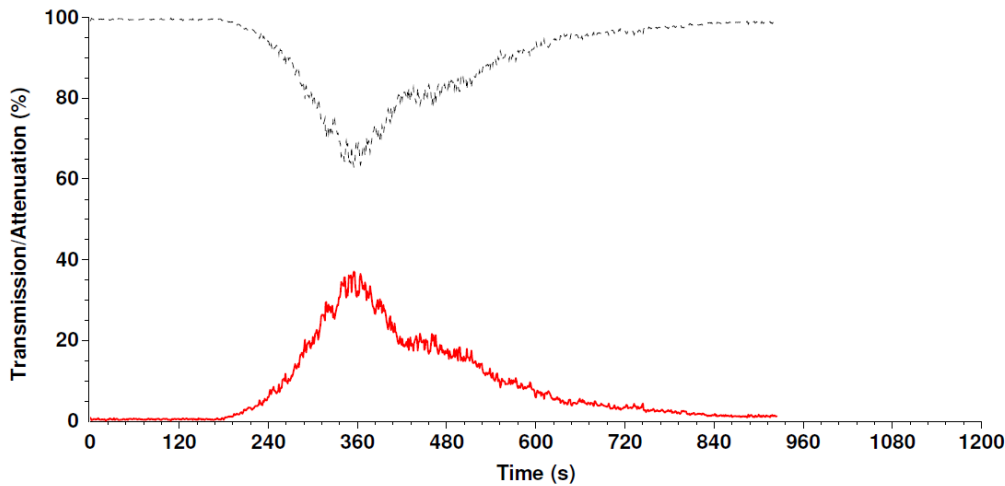
Sample 3 Length

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Smoke Graph



Test name : LENGTH3
 File name : C:\FRPSOFT\DATA\22100040.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	202	12.3	2.478	510	-	3.4	-
110	313	11.3	3.547	560	-	2.8	-
160	357	10.5	3.750	610	-	2.3	-
210	469	9.6	4.483	660	-	2.0	-
260	569	8.3	4.745	710	-	1.7	-
310	-	7.2	-	760	-	1.4	-
360	-	6.0	-	810	-	1.3	-
410	-	5.0	-	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-

END OF REPORT