



TEST REPORT

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

Test Report No: R22-384
Sample Received Date: 2/09/2022
Test Date: 11/10/2022
Report Date: 12/10/2022

Sample Description: Client Reference: "SANDBANK"
Loop Pile Carpet Tile
100% Solution Dyed Nylon 6
1017g/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	3.5	-	-	-	kW/m ²
Width	3.1	3.4	3.3	3.3	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	287	-	-	-	%.min
Width	273	260	256	263	%.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	: 59 minutes 57 seconds (3597 s)
Extent of burning (mm)	: 500
Critical flux at extinguishment (kW/m ²)	: 3.50
HF-10 (kW/m ²)	: 7.99
HF-20 (kW/m ²)	: 5.74
HF-30 (kW/m ²)	: 4.55
Flame spread at 10 minutes (mm)	: 270
Flame spread at 20 minutes (mm)	: 370
Flame spread at 30 minutes (mm)	: 430
Peak light attenuation (%)	: 42.49
Time to peak light attenuation	: 8 minutes 01 seconds (481 s)
Total integrated smoke (%.min)	: 287.14



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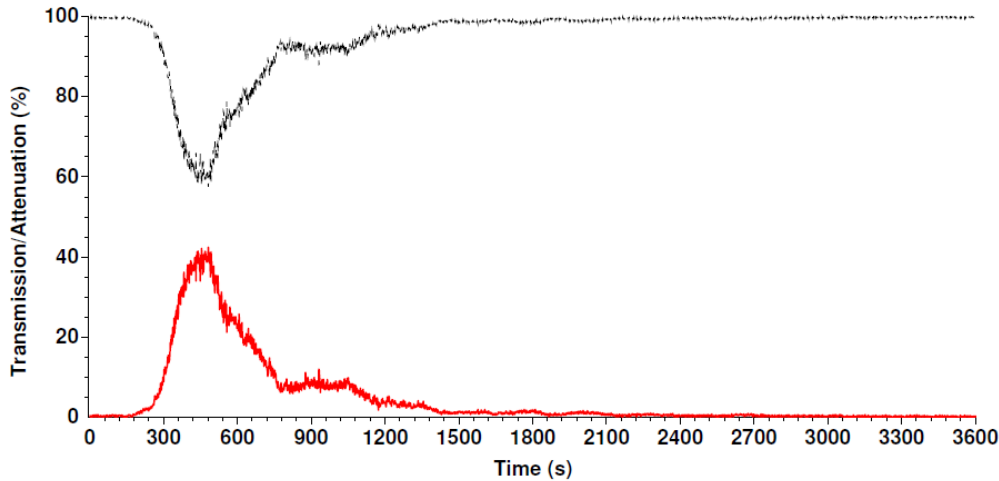
Sample 1 Length

Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\22100017.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	237	12.3	2.926	510	-	3.4	-
110	325	11.3	3.680	560	-	2.8	-
160	421	10.4	4.383	610	-	2.4	-
210	473	9.4	4.437	660	-	2.0	-
260	540	8.2	4.434	710	-	1.6	-
310	757	7.1	5.377	760	-	1.4	-
360	1095	6.0	6.519	810	-	1.3	-
410	1548	4.9	7.559	860	-	1.2	-
460	2366	4.1	9.587	910	-	1.0	-



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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 19 seconds (139 s)
Time to flameout	: 69 minutes 15 seconds (4155 s)
Extent of burning (mm)	: 530
Critical flux at extinguishment (kW/m ²)	: 3.14
HF-10 (kW/m ²)	: 8.45
HF-20 (kW/m ²)	: 6.18
HF-30 (kW/m ²)	: 4.88
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 40.36
Time to peak light attenuation	: 8 minutes 15 seconds (495 s)
Total integrated smoke (%.min)	: 273.48



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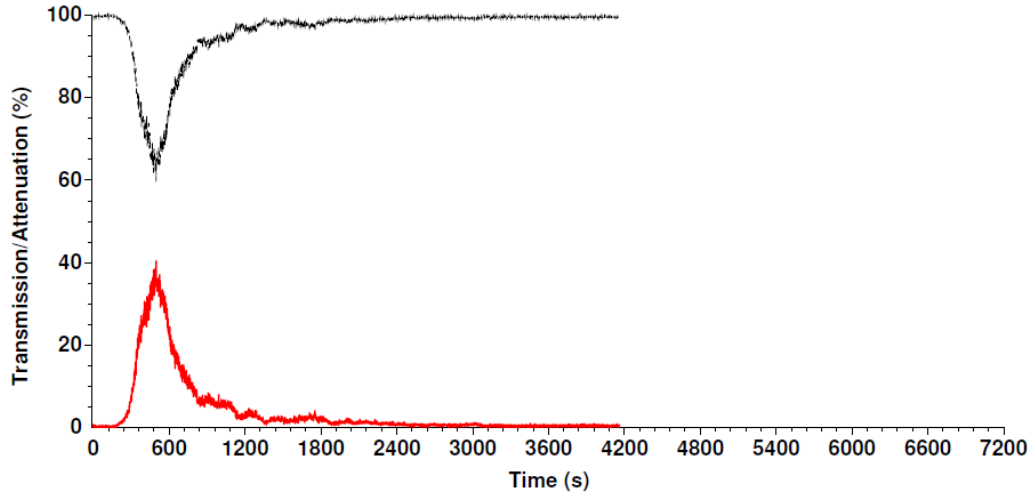
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Sample 1 Width
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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\22100018.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	245	12.3	3.025	510	2938	3.4	9.872
110	352	11.3	3.986	560	-	2.8	-
160	399	10.4	4.154	610	-	2.4	-
210	513	9.4	4.812	660	-	2.0	-
260	615	8.2	5.050	710	-	1.6	-
310	1005	7.1	7.139	760	-	1.4	-
360	1292	6.0	7.691	810	-	1.3	-
410	1781	4.9	8.697	860	-	1.2	-
460	2265	4.1	9.178	910	-	1.0	-



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Sample 2 Width

Test Results

Time to ignition	: 2 minutes 20 seconds (140 s)
Time to flameout	: 66 minutes 51 seconds (4011 s)
Extent of burning (mm)	: 510
Critical flux at extinguishment (kW/m ²)	: 3.36
HF-10 (kW/m ²)	: 8.45
HF-20 (kW/m ²)	: 6.18
HF-30 (kW/m ²)	: 5.10
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 36.59
Time to peak light attenuation	: 8 minutes 48 seconds (528 s)
Total integrated smoke (%.min)	: 259.68



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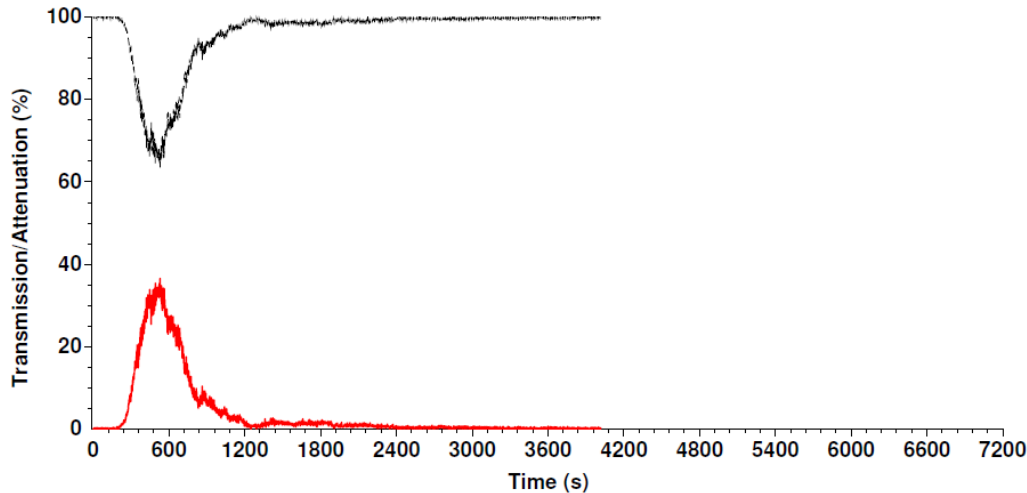
Sample 2 Width

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Smoke Graph



Test name : WIDTH2
 File name : C:\FRPSOFT\DATA\22100019.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	233	12.3	2.877	510	3620	3.4	12.163
110	378	11.3	4.280	560	-	2.8	-
160	433	10.4	4.508	610	-	2.4	-
210	534	9.4	5.009	660	-	2.0	-
260	629	8.2	5.165	710	-	1.6	-
310	843	7.1	5.988	760	-	1.4	-
360	1366	6.0	8.132	810	-	1.3	-
410	1982	4.9	9.678	860	-	1.2	-
460	2655	4.1	10.758	910	-	1.0	-



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Sample 3 Width

Test Results

Time to ignition	: 2 minutes 11 seconds (131 s)
Time to flameout	: 57 minutes 28 seconds (3448 s)
Extent of burning (mm)	: 520
Critical flux at extinguishment (kW/m ²)	: 3.25
HF-10 (kW/m ²)	: 7.32
HF-20 (kW/m ²)	: 5.31
HF-30 (kW/m ²)	: 4.22
Flame spread at 10 minutes (mm)	: 300
Flame spread at 20 minutes (mm)	: 390
Flame spread at 30 minutes (mm)	: 450
Peak light attenuation (%)	: 48.11
Time to peak light attenuation	: 6 minutes 29 seconds (389 s)
Total integrated smoke (%.min)	: 255.64



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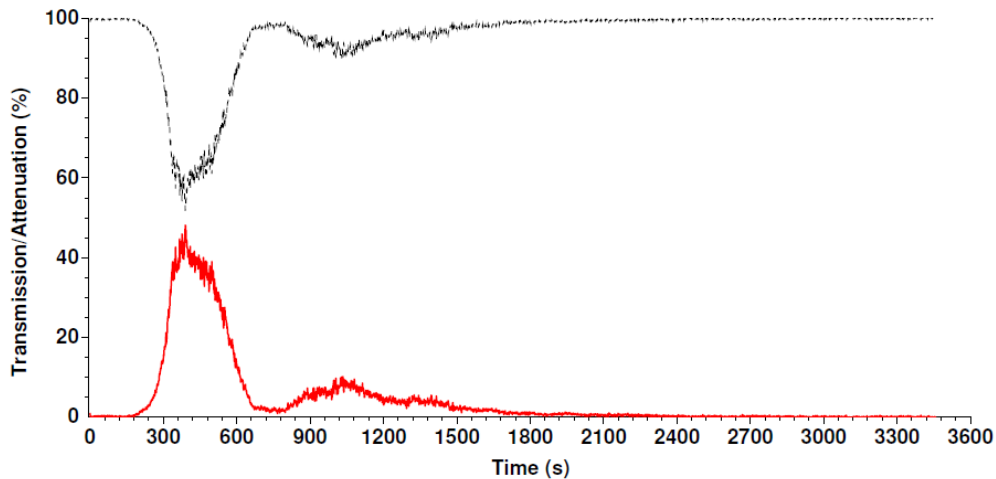
Sample 3 Width

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Smoke Graph



Test name : WIDTH3
 File name : C:\FRPSOFT\DATA\22100020.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	200	12.3	2.469	510	2633	3.4	8.847
110	291	11.3	3.295	560	-	2.8	-
160	346	10.4	3.603	610	-	2.4	-
210	394	9.4	3.696	660	-	2.0	-
260	446	8.2	3.663	710	-	1.6	-
310	715	7.1	5.079	760	-	1.4	-
360	992	6.0	5.905	810	-	1.3	-
410	1348	4.9	6.582	860	-	1.2	-
460	1840	4.1	7.456	910	-	1.0	-

END OF REPORT