



TEST REPORT

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

Test Report No: R22-394
Sample Received Date: 2/09/2022
Test Date: 17/10/2022
Report Date: 20/10/2022

Sample Description: Client Reference: "SHALLOWS"
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	3.8	3.9	3.4	3.7	kW/m ²
Width	4.1	-	-	-	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	265	237	224	242	%.min
Width	240	-	-	-	%.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 22 seconds (142 s)
Time to flameout	: 52 minutes 56 seconds (3176 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m ²)	: 3.78
HF-10 (kW/m ²)	: 7.32
HF-20 (kW/m ²)	: 5.53
HF-30 (kW/m ²)	: 4.88
Flame spread at 10 minutes (mm)	: 300
Flame spread at 20 minutes (mm)	: 380
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 47.73
Time to peak light attenuation	: 8 minutes 25 seconds (505 s)
Total integrated smoke (%.min)	: 264.77



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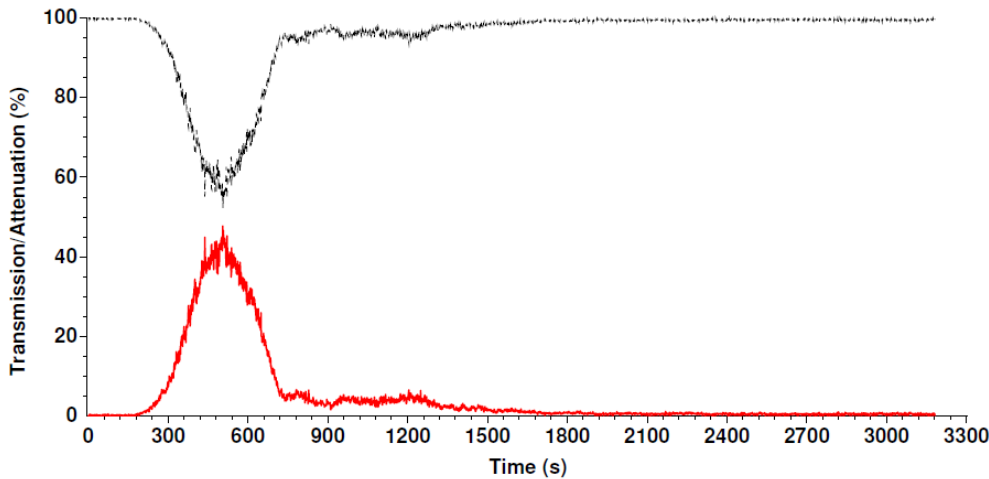
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Sample 1 Length
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\22100029.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	226	12.3	2.790	510	-	3.4	-
110	277	11.3	3.137	560	-	2.8	-
160	399	10.4	4.154	610	-	2.4	-
210	464	9.4	4.353	660	-	2.0	-
260	518	8.2	4.254	710	-	1.6	-
310	637	7.1	4.525	760	-	1.4	-
360	1027	6.0	6.114	810	-	1.3	-
410	1451	4.9	7.085	860	-	1.2	-
460	2172	4.1	8.801	910	-	1.0	-



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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 20 seconds (140 s)
Time to flameout	: 47 minutes 13 seconds (2833 s)
Extent of burning (mm)	: 460
Critical flux at extinguishment (kW/m ²)	: 4.05
HF-10 (kW/m ²)	: 8.68
HF-20 (kW/m ²)	: 6.41
HF-30 (kW/m ²)	: 4.88
Flame spread at 10 minutes (mm)	: 240
Flame spread at 20 minutes (mm)	: 340
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 45.82
Time to peak light attenuation	: 7 minutes 06 seconds (426 s)
Total integrated smoke (%.min)	: 239.93



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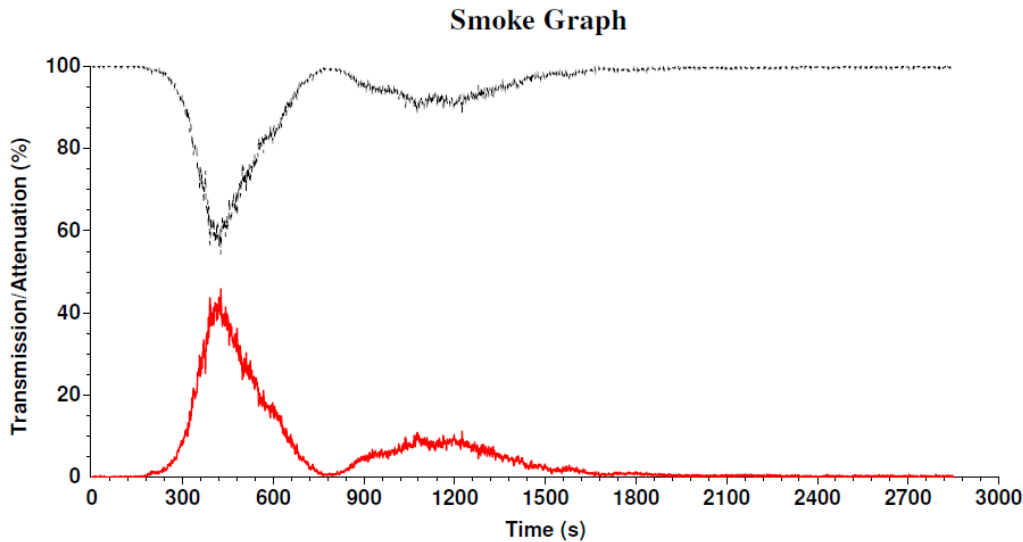
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Sample 1 Width

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Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\22100030.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	282	12.3	3.482	510	-	3.4	-
110	339	11.3	3.839	560	-	2.8	-
160	416	10.4	4.331	610	-	2.4	-
210	475	9.4	4.456	660	-	2.0	-
260	798	8.2	6.553	710	-	1.6	-
310	1035	7.1	7.352	760	-	1.4	-
360	1317	6.0	7.840	810	-	1.3	-
410	1797	4.9	8.775	860	-	1.2	-
460	2769	4.1	11.220	910	-	1.0	-



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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 28 seconds (148 s)
Time to flameout	: 61 minutes 15 seconds (3675 s)
Extent of burning (mm)	: 470
Critical flux at extinguishment (kW/m ²)	: 3.91
HF-10 (kW/m ²)	: 8.21
HF-20 (kW/m ²)	: 5.74
HF-30 (kW/m ²)	: 5.10
Flame spread at 10 minutes (mm)	: 260
Flame spread at 20 minutes (mm)	: 370
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 38.14
Time to peak light attenuation	: 7 minutes 34 seconds (454 s)
Total integrated smoke (%.min)	: 237.17



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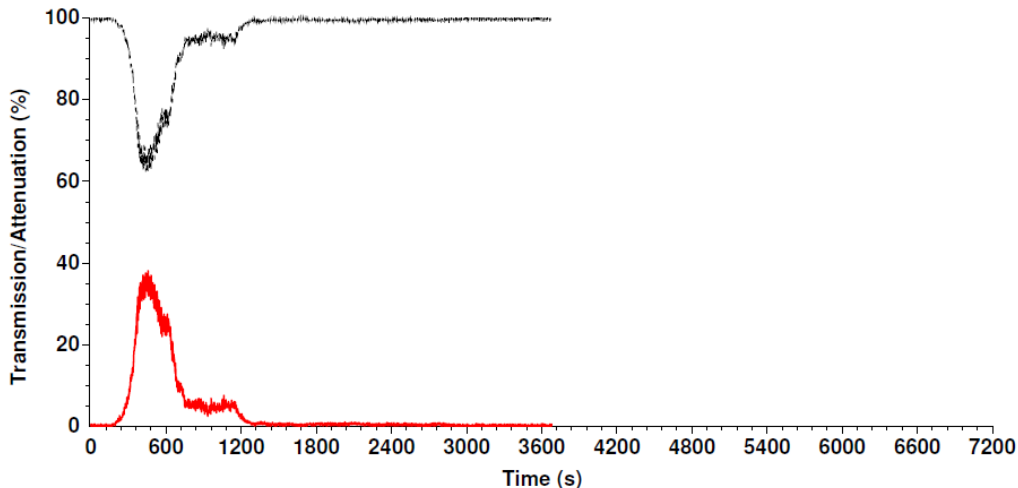
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Sample 2 Length
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Smoke Graph



Test name : LENGTH2
 File name : C:\FRPSOFT\DATA\22100031.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	187	12.3	2.309	510	-	3.4	-
110	307	11.3	3.476	560	-	2.8	-
160	387	10.4	4.029	610	-	2.4	-
210	441	9.4	4.137	660	-	2.0	-
260	517	8.2	4.246	710	-	1.6	-
310	720	7.1	5.114	760	-	1.4	-
360	1054	6.0	6.274	810	-	1.3	-
410	2013	4.9	9.829	860	-	1.2	-
460	2851	4.1	11.552	910	-	1.0	-



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Sample 3 Length

Test Results

Time to ignition	: 2 minutes 22 seconds (142 s)
Time to flameout	: 74 minutes 34 seconds (4474 s)
Extent of burning (mm)	: 510
Critical flux at extinguishment (kW/m ²)	: 3.36
HF-10 (kW/m ²)	: 7.99
HF-20 (kW/m ²)	: 6.87
HF-30 (kW/m ²)	: 5.74
Flame spread at 10 minutes (mm)	: 270
Flame spread at 20 minutes (mm)	: 320
Flame spread at 30 minutes (mm)	: 370
Peak light attenuation (%)	: 44.39
Time to peak light attenuation	: 7 minutes 06 seconds (426 s)
Total integrated smoke (%.min)	: 224.28



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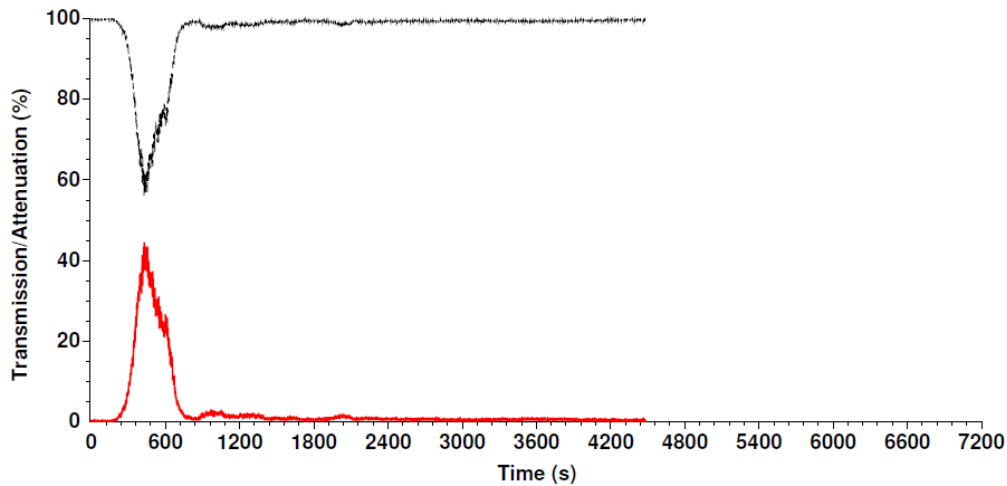
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Sample 3 Length
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH3
 File name : C:\FRPSOFT\DATA\22100032.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	12.3	2.827	510	4280	3.4	14.381
110	321	11.3	3.635	560	-	2.8	-
160	416	10.4	4.331	610	-	2.4	-
210	443	9.4	4.156	660	-	2.0	-
260	491	8.2	4.032	710	-	1.6	-
310	784	7.1	5.569	760	-	1.4	-
360	1430	6.0	8.513	810	-	1.3	-
410	2348	4.9	11.465	860	-	1.2	-
460	3024	4.1	12.253	910	-	1.0	-

END OF REPORT