



TEST REPORT

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

Test Report No: R22-050A
Sample Received Date: 18/02/2022
Test Date: 24/02/2022
Report Date: 28/03/2022

Sample Description: Client Reference: "TRUE DIMENSIONS 18Oz"
Loop Pile Carpet Tile
100% Solution Dyed Nylon 6
610g/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	3.9	8.7	4.6	5.7	kW/m ²
Width	5.0	-	-	-	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	162	101	155	140	%.min
Width	169	-	-	-	%.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	: 53 minutes 27 seconds (3207 s)
Extent of burning (mm)	: 470
Critical flux at extinguishment (kW/m ²)	: 3.91
HF-10 (kW/m ²)	: 9.33
HF-20 (kW/m ²)	: 6.63
HF-30 (kW/m ²)	: 4.79
Flame spread at 10 minutes (mm)	: 220
Flame spread at 20 minutes (mm)	: 340
Flame spread at 30 minutes (mm)	: 420
Peak light attenuation (%)	: 31.51
Time to peak light attenuation	: 6 minutes 01 seconds (361 s)
Total integrated smoke (%.min)	: 162.39



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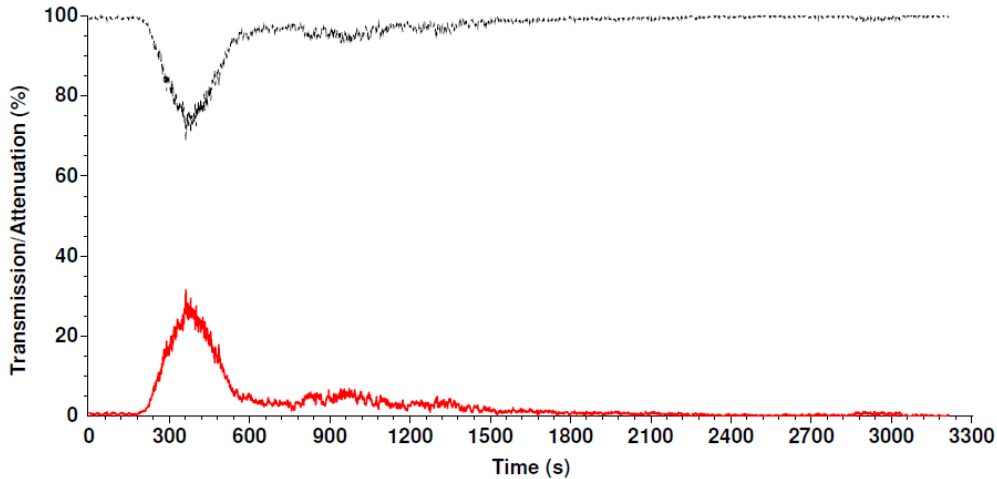
Sample 1 Length

Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\22020029.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	214	11.9	2.550	510	-	3.3	-
110	317	11.1	3.517	560	-	2.7	-
160	374	10.4	3.884	610	-	2.3	-
210	524	9.6	5.006	660	-	1.9	-
260	798	8.4	6.732	710	-	1.7	-
310	1030	7.4	7.600	760	-	1.4	-
360	1665	6.1	10.211	810	-	1.2	-
410	1737	5.0	8.628	860	-	1.1	-
460	2271	4.1	9.234	910	-	1.0	-



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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 17 seconds (137 s)
Time to flameout	: 41 minutes 48 seconds (2508 s)
Extent of burning (mm)	: 410
Critical flux at extinguishment (kW/m ²)	: 4.97
HF-10 (kW/m ²)	: 9.72
HF-20 (kW/m ²)	: 7.59
HF-30 (kW/m ²)	: 5.43
Flame spread at 10 minutes (mm)	: 200
Flame spread at 20 minutes (mm)	: 300
Flame spread at 30 minutes (mm)	: 390
Peak light attenuation (%)	: 29.05
Time to peak light attenuation	: 5 minutes 55 seconds (355 s)
Total integrated smoke (%.min)	: 168.57



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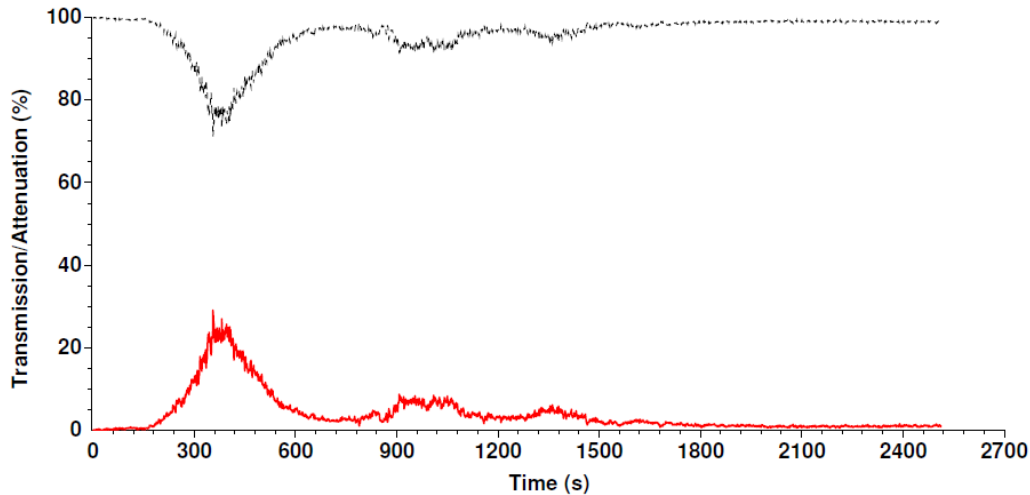
Sample 1 Width

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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\22020030.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	240	11.9	2.860	510	-	3.3	-
110	355	11.1	3.939	560	-	2.7	-
160	447	10.4	4.642	610	-	2.3	-
210	689	9.6	6.582	660	-	1.9	-
260	965	8.4	8.141	710	-	1.7	-
310	1228	7.4	9.061	760	-	1.4	-
360	1604	6.1	9.837	810	-	1.2	-
410	2033	5.0	10.098	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-



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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 24 seconds (144 s)
Time to flameout	: 22 minutes 10 seconds (1330 s)
Extent of burning (mm)	: 250
Critical flux at extinguishment (kW/m ²)	: 8.66
HF-10 (kW/m ²)	: 9.89
HF-20 (kW/m ²)	: 8.66
HF-30 (kW/m ²)	: Not calculated (test duration < 30 minutes)
Flame spread at 10 minutes (mm)	: 190
Flame spread at 20 minutes (mm)	: 250
Flame spread at 30 minutes (mm)	: Not measured
Peak light attenuation (%)	: 18.88
Time to peak light attenuation	: 7 minutes (420 s)
Total integrated smoke (%.min)	: 101.24



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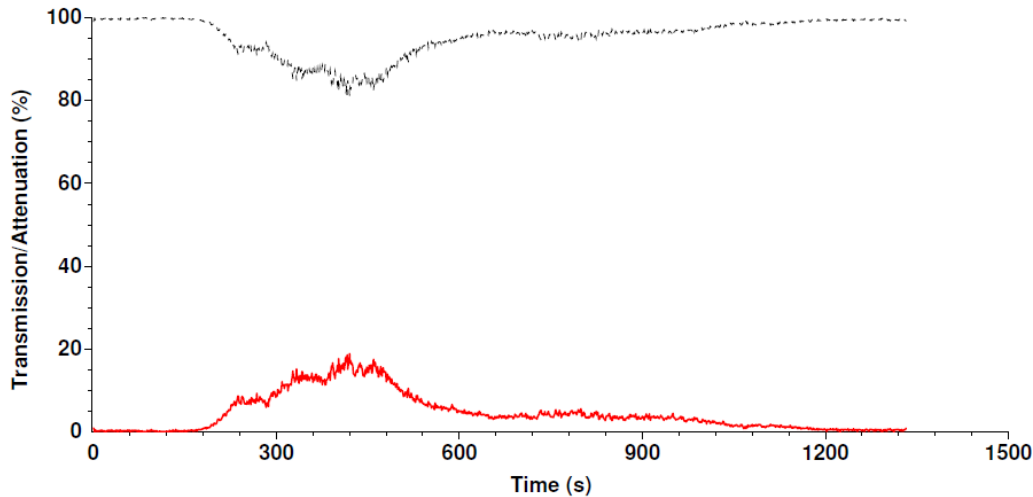
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Sample 2 Length
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Smoke Graph



Test name : LENGTH2
 File name : C:\FRPSOFT\DATA\22020031.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	243	11.9	2.895	510	-	3.3	-
110	374	11.1	4.150	560	-	2.7	-
160	490	10.4	5.088	610	-	2.3	-
210	759	9.6	7.251	660	-	1.9	-
260	-	8.4	-	710	-	1.7	-
310	-	7.4	-	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 3 Length

Test Results

Time to ignition	: 2 minutes 30 seconds (150 s)
Time to flameout	: 39 minutes 16 seconds (2356 s)
Extent of burning (mm)	: 430
Critical flux at extinguishment (kW/m ²)	: 4.61
HF-10 (kW/m ²)	: 9.55
HF-20 (kW/m ²)	: 7.13
HF-30 (kW/m ²)	: 5.43
Flame spread at 10 minutes (mm)	: 210
Flame spread at 20 minutes (mm)	: 320
Flame spread at 30 minutes (mm)	: 390
Peak light attenuation (%)	: 23.89
Time to peak light attenuation	: 6 minutes 26 seconds (386 s)
Total integrated smoke (%.min)	: 155.34



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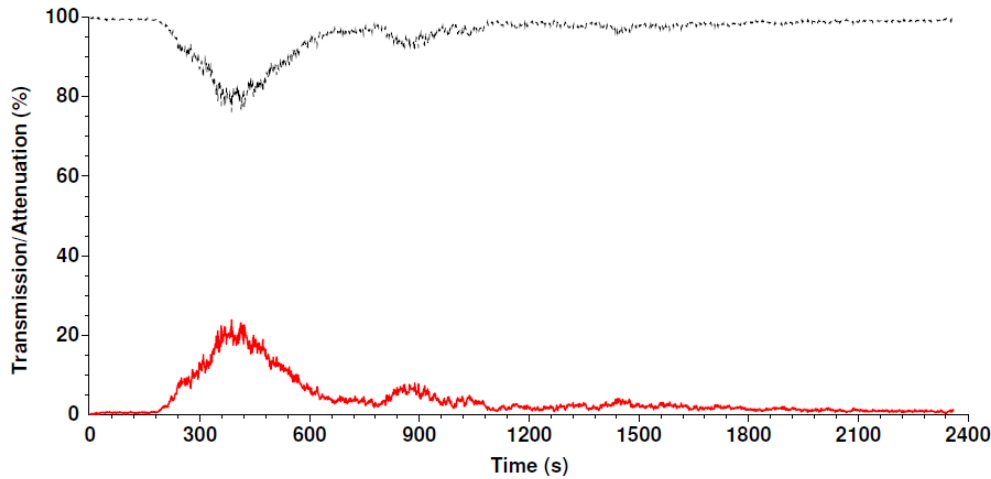
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Sample 3 Length
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Smoke Graph



Test name : LENGTH3
 File name : C:\FRPSOFT\DATA\22020032.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	219	11.9	2.609	510	-	3.3	-
110	338	11.1	3.750	560	-	2.7	-
160	390	10.4	4.050	610	-	2.3	-
210	552	9.6	5.273	660	-	1.9	-
260	831	8.4	7.010	710	-	1.7	-
310	1170	7.4	8.633	760	-	1.4	-
360	1498	6.1	9.187	810	-	1.2	-
410	1985	5.0	9.859	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-

END OF REPORT