



TEST REPORT

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

Test Report No: R23-005
Sample Received Date: 21/12/2022
Test Date: 17/01/2023
Report Date: 17/01/2023

Sample Description: Client Reference: "CE200"
Loop Pile Carpet Tile
100% Solution Dyed Nylon 6
712g/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	4.3	-	-	-	kW/m ²
Width	3.8	8.3	8.3	6.8	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	157	-	-	-	%.min
Width	183	125	120	143	%.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	: 48 minutes 43 seconds (2923 s)
Extent of burning (mm)	: 450
Critical flux at extinguishment (kW/m ²)	: 4.25
HF-10 (kW/m ²)	: 8.93
HF-20 (kW/m ²)	: 6.72
HF-30 (kW/m ²)	: 5.39
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 330
Flame spread at 30 minutes (mm)	: 390
Peak light attenuation (%)	: 26.94
Time to peak light attenuation	: 6 minutes 56 seconds (416 s)
Total integrated smoke (%.min)	: 157.2



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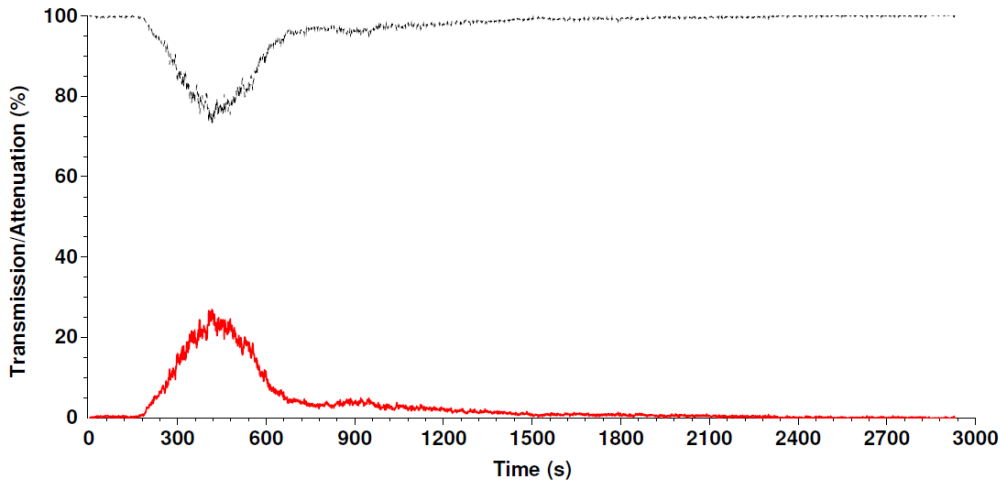
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Sample 1 Length
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\23010013.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	234	12.0	2.814	510	-	3.3	-
110	330	11.1	3.668	560	-	2.7	-
160	413	10.3	4.259	610	-	2.3	-
210	498	9.4	4.676	660	-	1.9	-
260	694	8.3	5.728	710	-	1.6	-
310	1066	7.2	7.651	760	-	1.4	-
360	1550	6.0	9.347	810	-	1.2	-
410	2068	5.0	10.263	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-



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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 15 seconds (135 s)
Time to flameout	: 66 minutes 31 seconds (3991 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m ²)	: 3.76
HF-10 (kW/m ²)	: 8.93
HF-20 (kW/m ²)	: 6.72
HF-30 (kW/m ²)	: 5.39
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 330
Flame spread at 30 minutes (mm)	: 390
Peak light attenuation (%)	: 27.12
Time to peak light attenuation	: 6 minutes 51 seconds (411 s)
Total integrated smoke (%.min)	: 183.42



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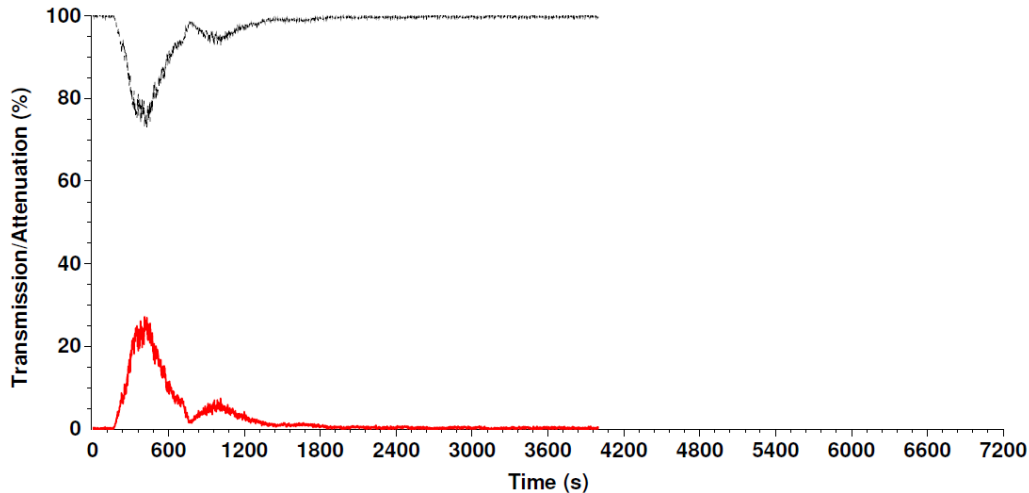
Sample 1 Width

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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\23010014.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	249	12.0	2.994	510	-	3.3	-
110	318	11.1	3.534	560	-	2.7	-
160	379	10.3	3.908	610	-	2.3	-
210	498	9.4	4.676	660	-	1.9	-
260	715	8.3	5.901	710	-	1.6	-
310	1072	7.2	7.694	760	-	1.4	-
360	1437	6.0	8.665	810	-	1.2	-
410	1978	5.0	9.817	860	-	1.1	-
460	2996	4.1	12.185	910	-	1.0	-



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Sample 2 Width

Test Results

Time to ignition	: 2 minutes 14 seconds (134 s)
Time to flameout	: 21 minutes 02 seconds (1262 s)
Extent of burning (mm)	: 260
Critical flux at extinguishment (kW/m ²)	: 8.25
HF-10 (kW/m ²)	: 9.39
HF-20 (kW/m ²)	: 8.25
HF-30 (kW/m ²)	: Not calculated (test duration < 30 minutes)
Flame spread at 10 minutes (mm)	: 210
Flame spread at 20 minutes (mm)	: 260
Flame spread at 30 minutes (mm)	: Not measured
Peak light attenuation (%)	: 34.81
Time to peak light attenuation	: 6 minutes 09 seconds (369 s)
Total integrated smoke (%.min)	: 124.75



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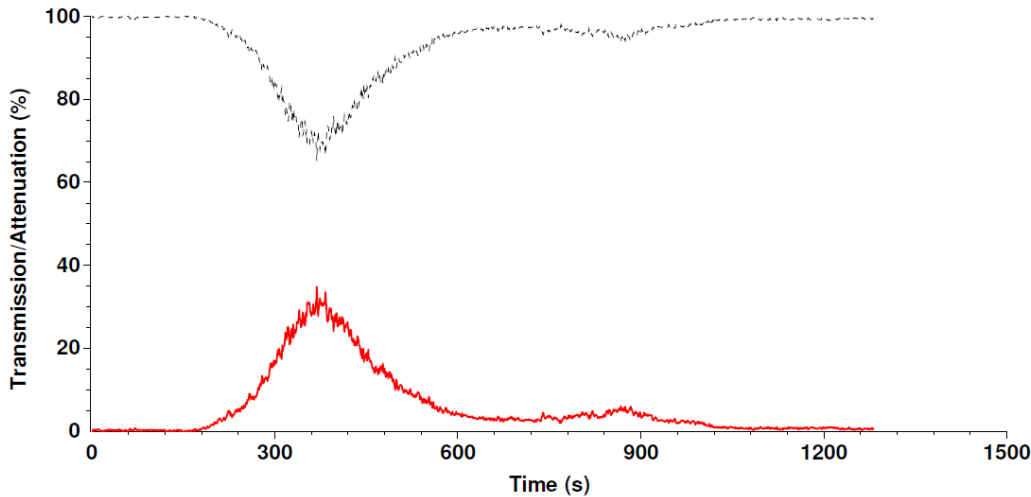
Sample 2 Width

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Smoke Graph



Test name : WIDTH2
 File name : C:\FRPSOFT\DATA\23010015.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	258	12.0	3.103	510	-	3.3	-
110	350	11.1	3.890	560	-	2.7	-
160	413	10.3	4.259	610	-	2.3	-
210	603	9.4	5.662	660	-	1.9	-
260	880	8.3	7.263	710	-	1.6	-
310	-	7.2	-	760	-	1.4	-
360	-	6.0	-	810	-	1.2	-
410	-	5.0	-	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-



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Sample 3 Width

Test Results

Time to ignition	: 2 minutes 13 seconds (133 s)
Time to flameout	: 20 minutes 03 seconds (1203 s)
Extent of burning (mm)	: 260
Critical flux at extinguishment (kW/m ²)	: 8.25
HF-10 (kW/m ²)	: 9.16
HF-20 (kW/m ²)	: 8.25
HF-30 (kW/m ²)	: Not calculated (test duration < 30 minutes)
Flame spread at 10 minutes (mm)	: 220
Flame spread at 20 minutes (mm)	: 260
Flame spread at 30 minutes (mm)	: Not measured
Peak light attenuation (%)	: 35.02
Time to peak light attenuation	: 6 minutes 25 seconds (385 s)
Total integrated smoke (%.min)	: 119.82



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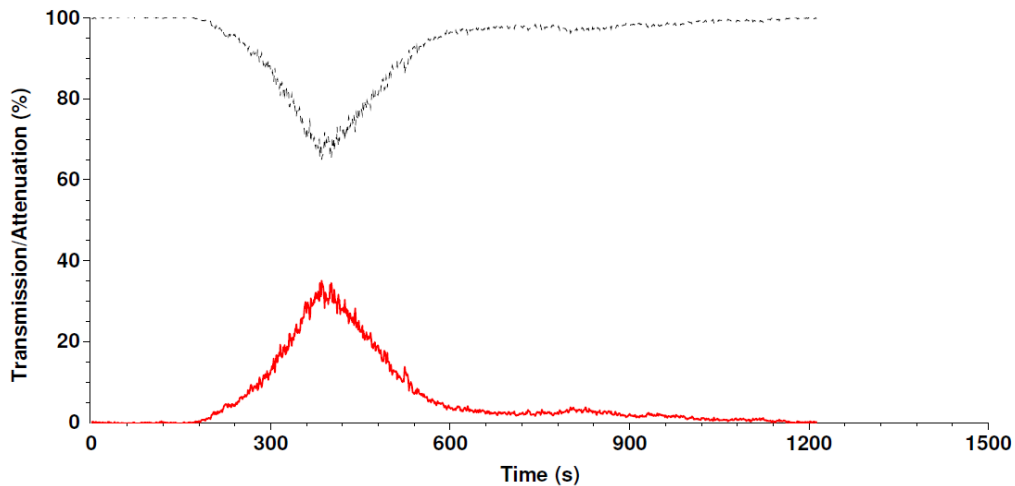
Sample 3 Width

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Smoke Graph



Test name : WIDTH3
 File name : C:\FRPSOFT\DATA\23010016.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	263	12.0	3.163	510	-	3.3	-
110	326	11.1	3.623	560	-	2.7	-
160	427	10.3	4.403	610	-	2.3	-
210	531	9.4	4.986	660	-	1.9	-
260	885	8.3	7.304	710	-	1.6	-
310	-	7.2	-	760	-	1.4	-
360	-	6.0	-	810	-	1.2	-
410	-	5.0	-	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-

END OF REPORT