



TEST REPORT

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

Test Report No: R23-164
Sample Received Date: 13/07/2023
Test Date: 8/11/2023
Report Date: 10/11/2023

Sample Description: Client Reference: "RETROSPEC"
Loop Pile Carpet Tile
100% Solution Dyed Nylon 6
882g/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	3.4	3.9	3.2	3.5	kW/m ²
Width	3.8	-	-	-	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	233	213	205	217	%.min
Width	219	-	-	-	%.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.

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Sample 1 Length

Test Results

Time to ignition	: 2 minutes 12 seconds (132 s)
Time to flameout	: 59 minutes 15 seconds (3555 s)
Extent of burning (mm)	: 510
Critical flux at extinguishment (kW/m ²)	: 3.35
HF-10 (kW/m ²)	: 8.20
HF-20 (kW/m ²)	: 5.75
HF-30 (kW/m ²)	: 4.59
Flame spread at 10 minutes (mm)	: 260
Flame spread at 20 minutes (mm)	: 370
Flame spread at 30 minutes (mm)	: 430
Peak light attenuation (%)	: 44.65
Time to peak light attenuation	: 6 minutes 32 seconds (392 s)
Total integrated smoke (%.min)	: 233.17

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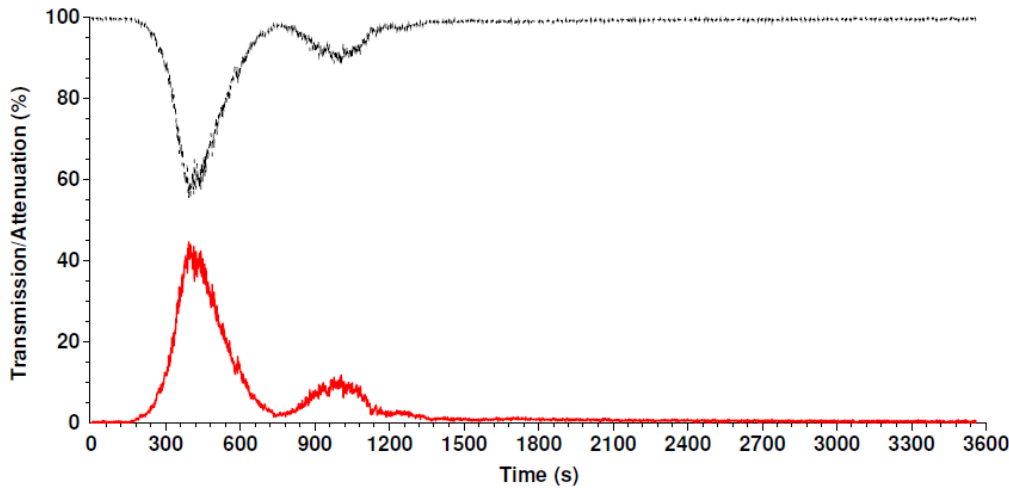
Sample 1 Length

Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\23110013.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	11.9	2.643	510	3450	3.3	11.547
110	316	11.0	3.488	560	-	2.8	-
160	403	10.3	4.143	610	-	2.3	-
210	444	9.4	4.176	660	-	1.9	-
260	588	8.2	4.821	710	-	1.6	-
310	843	7.1	5.947	760	-	1.4	-
360	1156	6.0	6.885	810	-	1.2	-
410	1548	4.9	7.644	860	-	1.1	-
460	2921	4.1	11.894	910	-	1.0	-

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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 14 seconds (134 s)
Time to flameout	: 44 minutes 47 seconds (2687 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m ²)	: 3.78
HF-10 (kW/m ²)	: 8.44
HF-20 (kW/m ²)	: 5.75
HF-30 (kW/m ²)	: 4.42
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 370
Flame spread at 30 minutes (mm)	: 440
Peak light attenuation (%)	: 34.85
Time to peak light attenuation	: 6 minutes 41 seconds (401 s)
Total integrated smoke (%.min)	: 218.76

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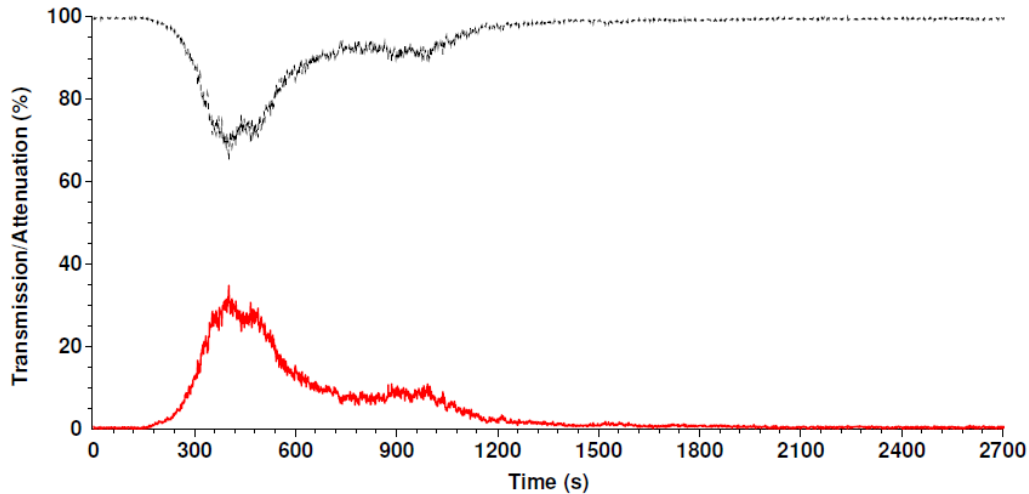
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Sample 1 Width
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\23110014.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	11.9	2.726	510	-	3.3	-
110	322	11.0	3.554	560	-	2.8	-
160	411	10.3	4.225	610	-	2.3	-
210	507	9.4	4.768	660	-	1.9	-
260	687	8.2	5.633	710	-	1.6	-
310	895	7.1	6.313	760	-	1.4	-
360	1106	6.0	6.587	810	-	1.2	-
410	1522	4.9	7.516	860	-	1.1	-
460	2134	4.1	8.690	910	-	1.0	-

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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 13 seconds (133 s)
Time to flameout	: 43 minutes 56 seconds (2636 s)
Extent of burning (mm)	: 470
Critical flux at extinguishment (kW/m ²)	: 3.93
HF-10 (kW/m ²)	: 8.44
HF-20 (kW/m ²)	: 6.18
HF-30 (kW/m ²)	: 4.42
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 440
Peak light attenuation (%)	: 38.85
Time to peak light attenuation	: 6 minutes 48 seconds (408 s)
Total integrated smoke (%.min)	: 213.02

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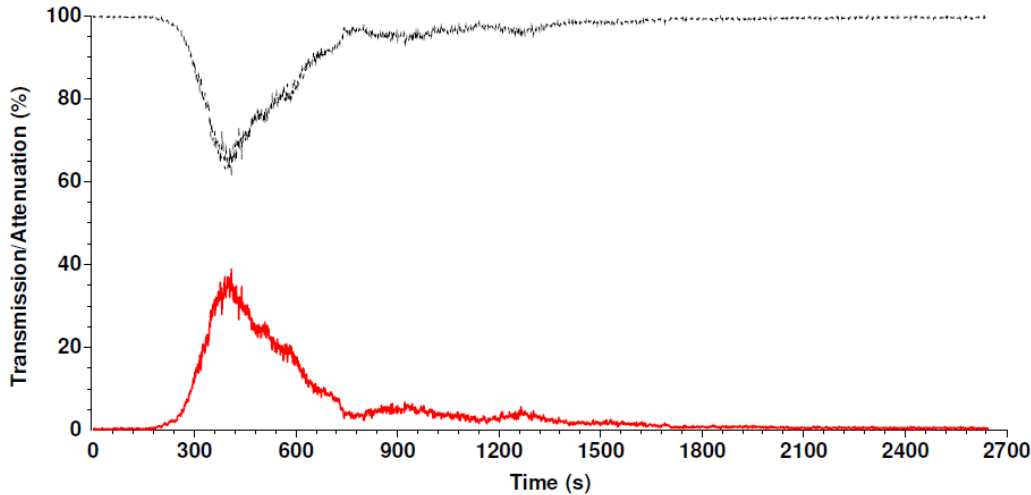
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Sample 2 Length
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Smoke Graph



Test name : LENGTH2
 File name : C:\FRPSOFT\DATA\23110015.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	185	11.9	2.202	510	-	3.3	-
110	227	11.0	2.505	560	-	2.8	-
160	323	10.3	3.321	610	-	2.3	-
210	434	9.4	4.082	660	-	1.9	-
260	606	8.2	4.969	710	-	1.6	-
310	865	7.1	6.102	760	-	1.4	-
360	1304	6.0	7.767	810	-	1.2	-
410	1712	4.9	8.454	860	-	1.1	-
460	2201	4.1	8.962	910	-	1.0	-

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Sample 3 Length

Test Results

Time to ignition	: 2 minutes 18 seconds (138 s)
Time to flameout	: 67 minutes 50 seconds (4070 s)
Extent of burning (mm)	: 520
Critical flux at extinguishment (kW/m ²)	: 3.23
HF-10 (kW/m ²)	: 8.44
HF-20 (kW/m ²)	: 6.18
HF-30 (kW/m ²)	: 4.94
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 36.13
Time to peak light attenuation	: 6 minutes 32 seconds (392 s)
Total integrated smoke (%.min)	: 205

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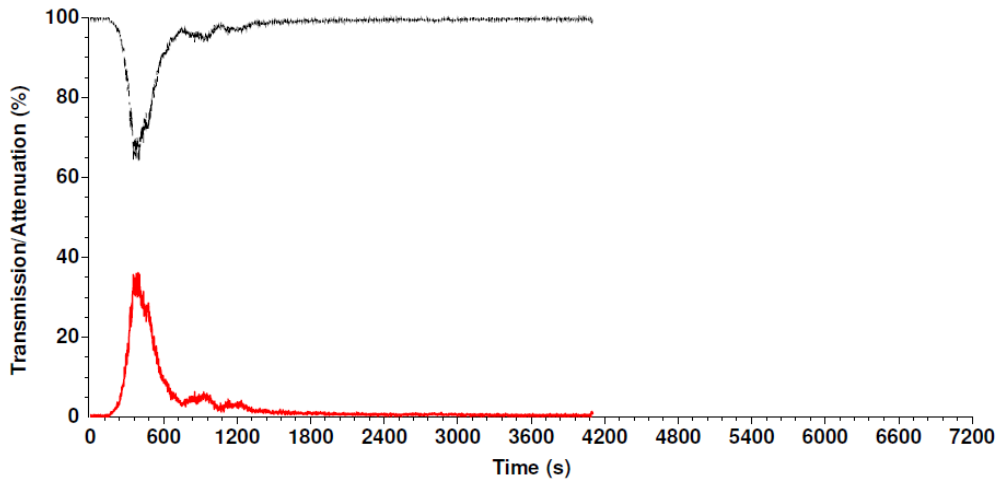
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Sample 3 Length
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Smoke Graph



Test name : LENGTH3
 File name : C:\FRPSOFT\DATA\23110016.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	196	11.9	2.333	510	2880	3.3	9.639
110	273	11.0	3.013	560	-	2.8	-
160	383	10.3	3.938	610	-	2.3	-
210	450	9.4	4.232	660	-	1.9	-
260	640	8.2	5.247	710	-	1.6	-
310	959	7.1	6.765	760	-	1.4	-
360	1275	6.0	7.594	810	-	1.2	-
410	1782	4.9	8.800	860	-	1.1	-
460	2017	4.1	8.213	910	-	1.0	-

END OF REPORT

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