



TEST REPORT

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

Test Report No: R24-262
Sample Received Date: 24/10/2024
Test Date: 12/11/2024
Report Date: 26/11/2024

Sample Description: Client Reference: "FREE REIGN"
Loop Pile Carpet Tile
100% Solution Dyed Nylon 6
644g/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	4.4	-	-	-	kW/m ²
Width	4.1	4.2	4.2	4.2	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	158	-	-	-	%.min
Width	177	170	170	173	%.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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Product Technical Manager

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Sample 1 Length

Test Results

Time to ignition	: 2 minutes 09 seconds (129 s)
Time to flameout	: 46 minutes 48 seconds (2808 s)
Extent of burning (mm)	: 440
Critical flux at extinguishment (kW/m ²)	: 4.38
HF-10 (kW/m ²)	: 8.92
HF-20 (kW/m ²)	: 6.11
HF-30 (kW/m ²)	: 4.71
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 420
Peak light attenuation (%)	: 31.64
Time to peak light attenuation	: 6 minutes 26 seconds (386 s)
Total integrated smoke (%.min)	: 158.39

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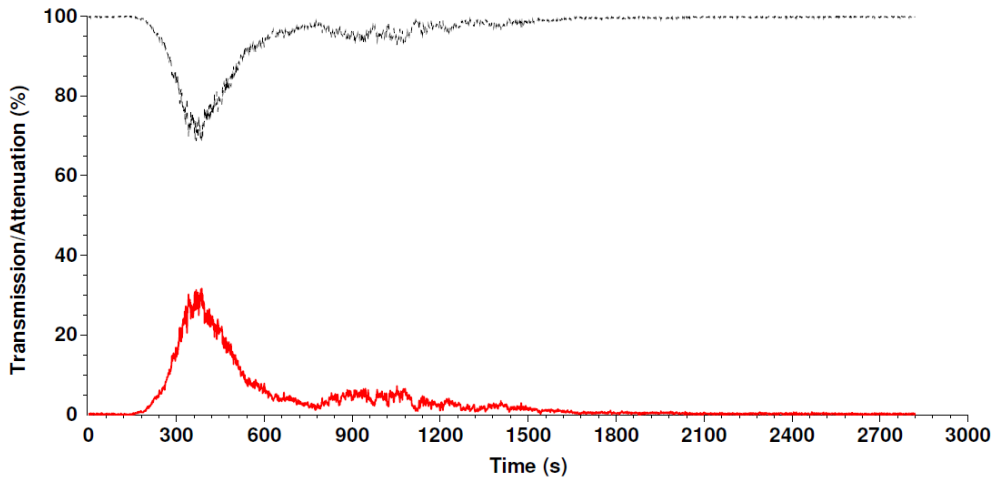
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Sample 1 Length
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\24110013.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	251	12.3	3.086	510	-	3.4	-
110	325	11.3	3.674	560	-	2.8	-
160	410	10.4	4.273	610	-	2.4	-
210	503	9.4	4.738	660	-	2.0	-
260	709	8.2	5.795	710	-	1.8	-
310	955	7.0	6.672	760	-	1.5	-
360	1276	5.9	7.516	810	-	1.4	-
410	1714	4.9	8.356	860	-	1.2	-
460	-	4.0	-	910	-	1.1	-

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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 10 seconds (130 s)
Time to flameout	: 55 minutes 57 seconds (3357 s)
Extent of burning (mm)	: 460
Critical flux at extinguishment (kW/m ²)	: 4.05
HF-10 (kW/m ²)	: 9.17
HF-20 (kW/m ²)	: 6.55
HF-30 (kW/m ²)	: 5.08
Flame spread at 10 minutes (mm)	: 220
Flame spread at 20 minutes (mm)	: 330
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 36.03
Time to peak light attenuation	: 6 minutes 25 seconds (385 s)
Total integrated smoke (%.min)	: 177.39

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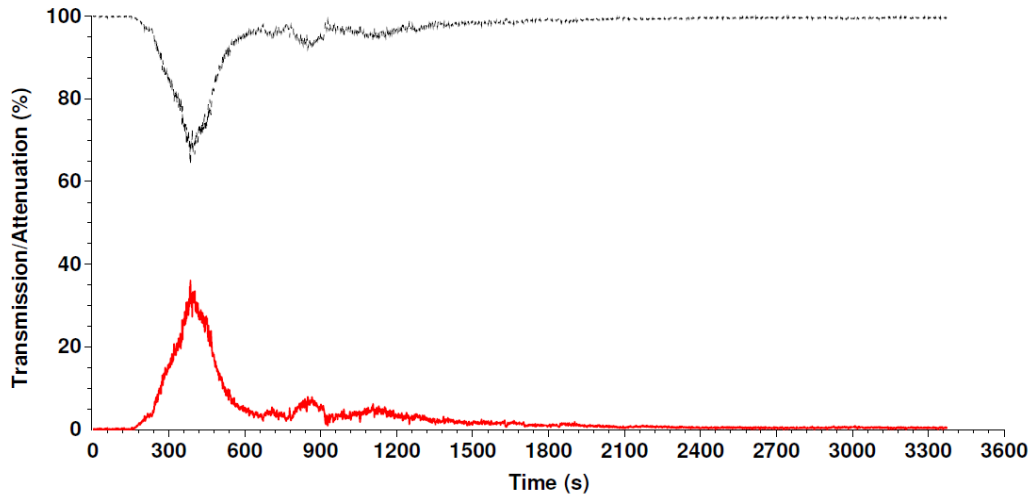
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Sample 1 Width
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\24110014.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	247	12.3	3.037	510	-	3.4	-
110	333	11.3	3.764	560	-	2.8	-
160	398	10.4	4.148	610	-	2.4	-
210	488	9.4	4.596	660	-	2.0	-
260	814	8.2	6.653	710	-	1.8	-
310	1057	7.0	7.384	760	-	1.5	-
360	1432	5.9	8.434	810	-	1.4	-
410	1969	4.9	9.599	860	-	1.2	-
460	3029	4.0	12.267	910	-	1.1	-

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Sample 2 Width

Test Results

Time to ignition	: 2 minutes 11 seconds (131 s)
Time to flameout	: 41 minutes 13 seconds (2473 s)
Extent of burning (mm)	: 450
Critical flux at extinguishment (kW/m ²)	: 4.22
HF-10 (kW/m ²)	: 8.92
HF-20 (kW/m ²)	: 6.11
HF-30 (kW/m ²)	: 4.88
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 28.04
Time to peak light attenuation	: 6 minutes 37 seconds (397 s)
Total integrated smoke (%.min)	: 164.94

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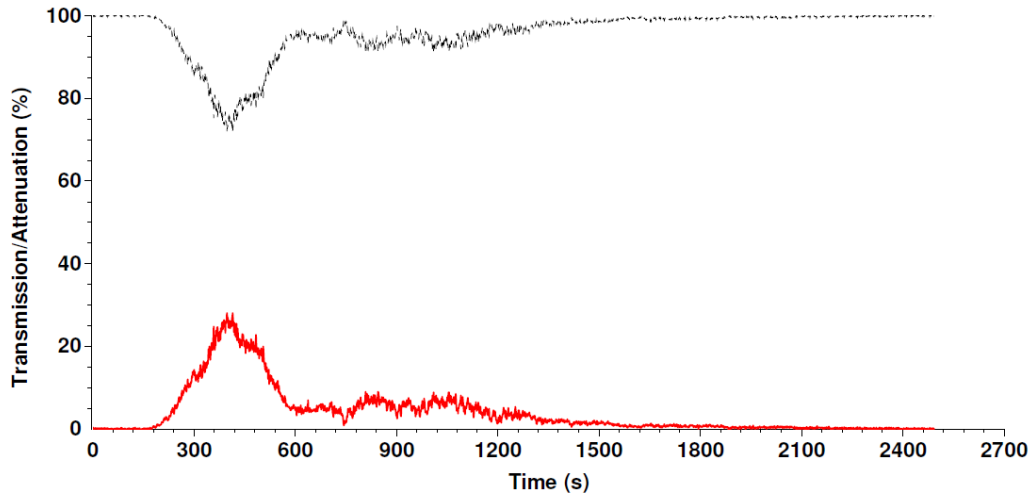
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Sample 2 Width
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : WIDTH2
 File name : C:\FRPSOFT\DATA\24110015.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	12.3	2.988	510	-	3.4	-
110	334	11.3	3.776	560	-	2.8	-
160	415	10.4	4.325	610	-	2.4	-
210	533	9.4	5.020	660	-	2.0	-
260	755	8.2	6.171	710	-	1.8	-
310	1044	7.0	7.293	760	-	1.5	-
360	1278	5.9	7.527	810	-	1.4	-
410	1784	4.9	8.697	860	-	1.2	-
460	-	4.0	-	910	-	1.1	-

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Sample 3 Width

Test Results

Time to ignition	: 2 minutes 23 seconds (143 s)
Time to flameout	: 45 minutes 08 seconds (2708 s)
Extent of burning (mm)	: 450
Critical flux at extinguishment (kW/m ²)	: 4.22
HF-10 (kW/m ²)	: 8.92
HF-20 (kW/m ²)	: 6.11
HF-30 (kW/m ²)	: 4.71
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 420
Peak light attenuation (%)	: 34.47
Time to peak light attenuation	: 6 minutes 21 seconds (381 s)
Total integrated smoke (%.min)	: 170.12

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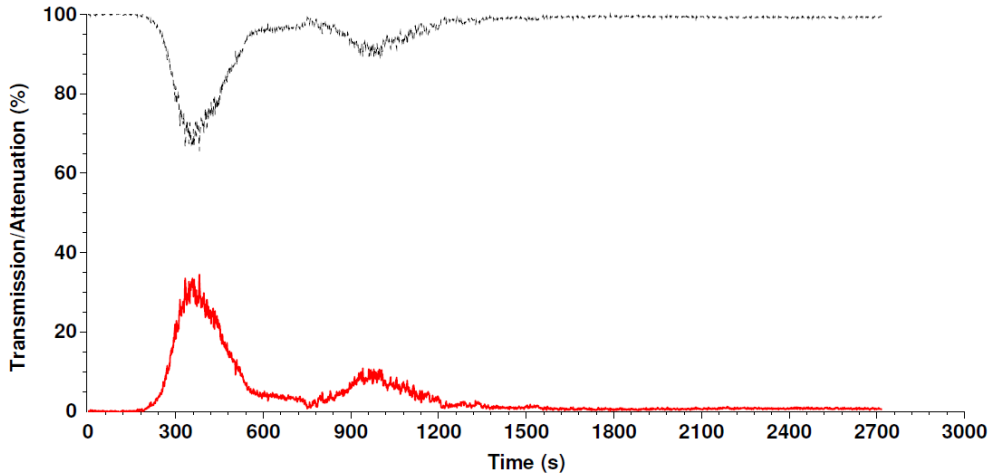
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Sample 3 Width
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : WIDTH3
 File name : C:\FRPSOFT\DATA\24110016.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	12.3	3.062	510	-	3.4	-
110	327	11.3	3.696	560	-	2.8	-
160	399	10.4	4.158	610	-	2.4	-
210	476	9.4	4.483	660	-	2.0	-
260	736	8.2	6.015	710	-	1.8	-
310	995	7.0	6.951	760	-	1.5	-
360	1421	5.9	8.370	810	-	1.4	-
410	-	4.9	-	860	-	1.2	-
460	-	4.0	-	910	-	1.1	-

END OF REPORT

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Product Technical Manager

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