



TEST REPORT

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

Test Report No: R23-062
Sample Received Date: 10/03/2023
Test Date: 1/05/2023
Report Date: 5/05/2023

Sample Description: Client Reference: "TWO TO TANGO"
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	4.9	-	-	-	kW/m ²
Width	4.1	4.1	3.9	4.0	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	165	-	-	-	%.min
Width	166	178	188	177	%.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 11 seconds (131 s)
Time to flameout	: 41 minutes 36 seconds (2496 s)
Extent of burning (mm)	: 410
Critical flux at extinguishment (kW/m ²)	: 4.92
HF-10 (kW/m ²)	: 8.49
HF-20 (kW/m ²)	: 6.40
HF-30 (kW/m ²)	: 4.92
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 340
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 33.65
Time to peak light attenuation	: 5 minutes 45 seconds (345 s)
Total integrated smoke (%.min)	: 165.36



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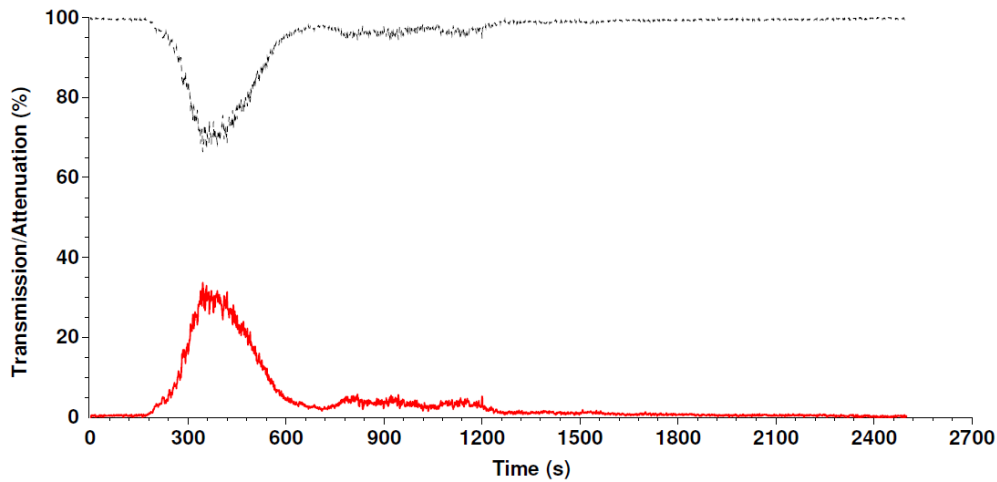
Sample 1 Length

Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\23050001.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	241	12.0	2.902	510	-	3.3	-
110	328	11.2	3.659	560	-	2.8	-
160	381	10.4	3.955	610	-	2.3	-
210	444	9.5	4.211	660	-	2.0	-
260	694	8.2	5.721	710	-	1.7	-
310	977	7.1	6.902	760	-	1.5	-
360	1308	6.0	7.787	810	-	1.3	-
410	1799	4.9	8.855	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-



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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 16 seconds (136 s)
Time to flameout	: 45 minutes 38 seconds (2738 s)
Extent of burning (mm)	: 460
Critical flux at extinguishment (kW/m ²)	: 4.06
HF-10 (kW/m ²)	: 8.49
HF-20 (kW/m ²)	: 6.18
HF-30 (kW/m ²)	: 4.92
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 31.07
Time to peak light attenuation	: 6 minutes 33 seconds (393 s)
Total integrated smoke (%.min)	: 165.87



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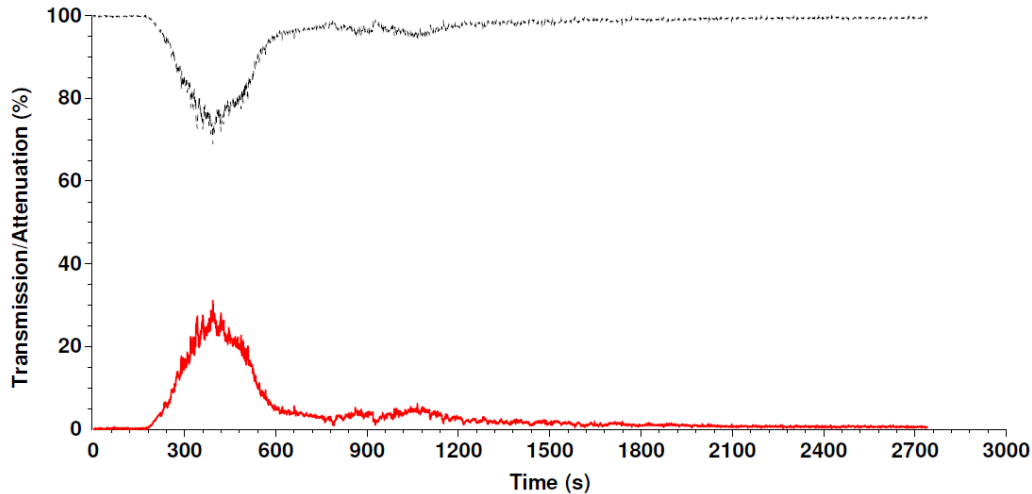
Sample 1 Width

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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\23050002.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	235	12.0	2.830	510	-	3.3	-
110	311	11.2	3.470	560	-	2.8	-
160	373	10.4	3.872	610	-	2.3	-
210	472	9.5	4.476	660	-	2.0	-
260	834	8.2	6.875	710	-	1.7	-
310	1075	7.1	7.594	760	-	1.5	-
360	1389	6.0	8.269	810	-	1.3	-
410	1758	4.9	8.653	860	-	1.1	-
460	2668	4.1	10.843	910	-	1.0	-



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Sample 2 Width

Test Results

Time to ignition	: 2 minutes 12 seconds (132 s)
Time to flameout	: 58 minutes 25 seconds (3505 s)
Extent of burning (mm)	: 460
Critical flux at extinguishment (kW/m ²)	: 4.06
HF-10 (kW/m ²)	: 8.49
HF-20 (kW/m ²)	: 7.30
HF-30 (kW/m ²)	: 5.54
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 300
Flame spread at 30 minutes (mm)	: 380
Peak light attenuation (%)	: 30.84
Time to peak light attenuation	: 5 minutes 23 seconds (323 s)
Total integrated smoke (%.min)	: 177.97



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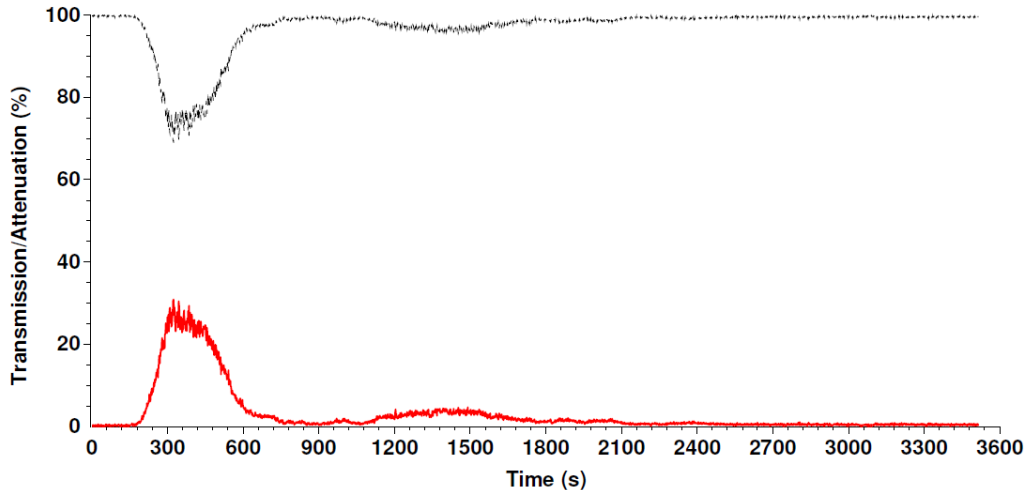
Sample 2 Width

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Smoke Graph



Test name : WIDTH2
 File name : C:\FRPSOFT\DATA\23050003.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	244	12.0	2.938	510	-	3.3	-
110	321	11.2	3.581	560	-	2.8	-
160	399	10.4	4.142	610	-	2.3	-
210	480	9.5	4.552	660	-	2.0	-
260	717	8.2	5.911	710	-	1.7	-
310	1383	7.1	9.770	760	-	1.5	-
360	1695	6.0	10.090	810	-	1.3	-
410	1956	4.9	9.627	860	-	1.1	-
460	2780	4.1	11.298	910	-	1.0	-



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Sample 3 Width

Test Results

Time to ignition	: 2 minutes 14 seconds (134 s)
Time to flameout	: 52 minutes 31 seconds (3151 s)
Extent of burning (mm)	: 470
Critical flux at extinguishment (kW/m ²)	: 3.92
HF-10 (kW/m ²)	: 8.49
HF-20 (kW/m ²)	: 7.30
HF-30 (kW/m ²)	: 5.54
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 300
Flame spread at 30 minutes (mm)	: 380
Peak light attenuation (%)	: 33.33
Time to peak light attenuation	: 6 minutes 07 seconds (367 s)
Total integrated smoke (%.min)	: 188.37



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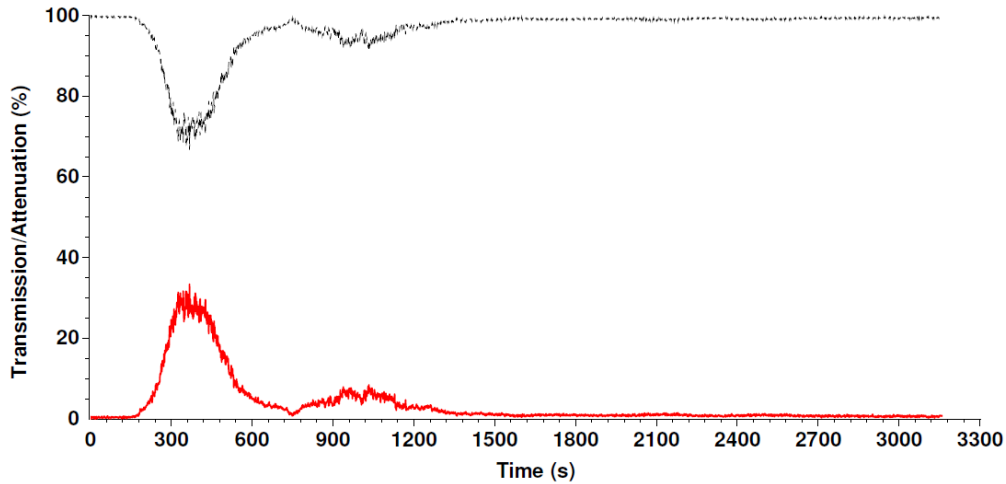
Sample 3 Width

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Smoke Graph



Test name : WIDTH3
 File name : C:\FRPSOFT\DATA\23050004.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	204	12.0	2.457	510	-	3.3	-
110	290	11.2	3.236	560	-	2.8	-
160	333	10.4	3.457	610	-	2.3	-
210	425	9.5	4.031	660	-	2.0	-
260	766	8.2	6.315	710	-	1.7	-
310	1045	7.1	7.382	760	-	1.5	-
360	1437	6.0	8.554	810	-	1.3	-
410	2129	4.9	10.479	860	-	1.1	-
460	2996	4.1	12.176	910	-	1.0	-

END OF REPORT