



TEST REPORT

Sample	Interface Australia PTY LTD	Test Report No:	R23-163
Manufacturing:	34 Airds Road Minto	Sample Received Date:	13/07/2023
	NSW 2566	Test Date:	7/11/2023
	Australia	Report Date:	10/11/2023

Sample	Client Reference: "UNWOUND"	Test Sponsor:
Description:	Loop Pile Carpet Tile	
	100% Solution Dyed Nylon 6	Interface Australia
	812g/m ² on a Glasbac Backing	

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	3.2	3.1	3.0	3.1	kW/m ²
Width	3.8	-	-	-	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	213	203	224	213	%.min
Width	204	-	-	-	%.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 16 seconds (136 s)
Time to flameout	: 55 minutes 11 seconds (3311 s)
Extent of burning (mm)	: 520
Critical flux at extinguishment (kW/m ²)	: 3.23
HF-10 (kW/m ²)	: 8.20
HF-20 (kW/m ²)	: 5.96
HF-30 (kW/m ²)	: 4.59
Flame spread at 10 minutes (mm)	: 260
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 430
Peak light attenuation (%)	: 37.44
Time to peak light attenuation	: 6 minutes 22 seconds (382 s)
Total integrated smoke (%.min)	: 212.6



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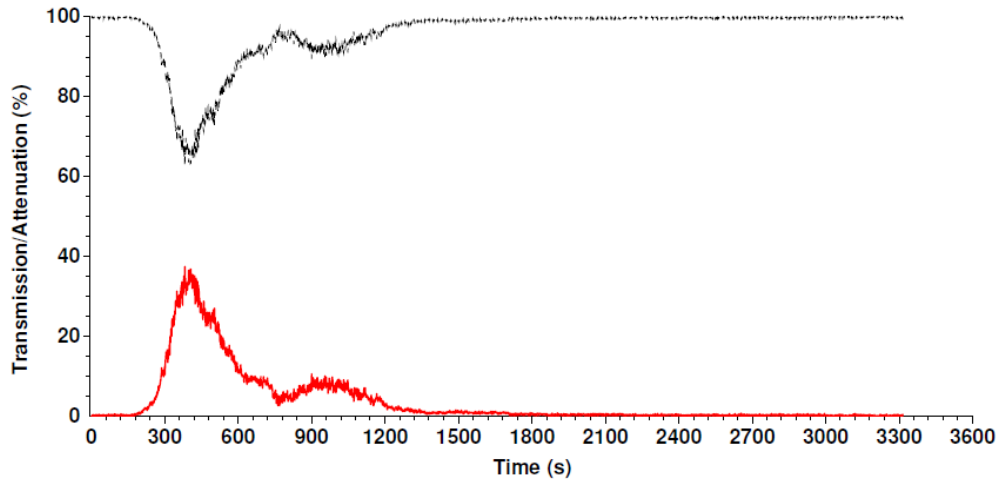
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Sample 1 Length
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\23110009.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	260	11.9	3.095	510	2869	3.3	9.603
110	323	11.0	3.565	560	-	2.8	-
160	398	10.3	4.092	610	-	2.3	-
210	462	9.4	4.345	660	-	1.9	-
260	603	8.2	4.944	710	-	1.6	-
310	858	7.1	6.052	760	-	1.4	-
360	1203	6.0	7.165	810	-	1.2	-
410	1639	4.9	8.093	860	-	1.1	-
460	2042	4.1	8.315	910	-	1.0	-

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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 15 seconds (135 s)
Time to flameout	: 47 minutes 30 seconds (2850 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m ²)	: 3.78
HF-10 (kW/m ²)	: 8.20
HF-20 (kW/m ²)	: 6.18
HF-30 (kW/m ²)	: 4.59
Flame spread at 10 minutes (mm)	: 260
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 430
Peak light attenuation (%)	: 36.17
Time to peak light attenuation	: 6 minutes 31 seconds (391 s)
Total integrated smoke (%.min)	: 203.94

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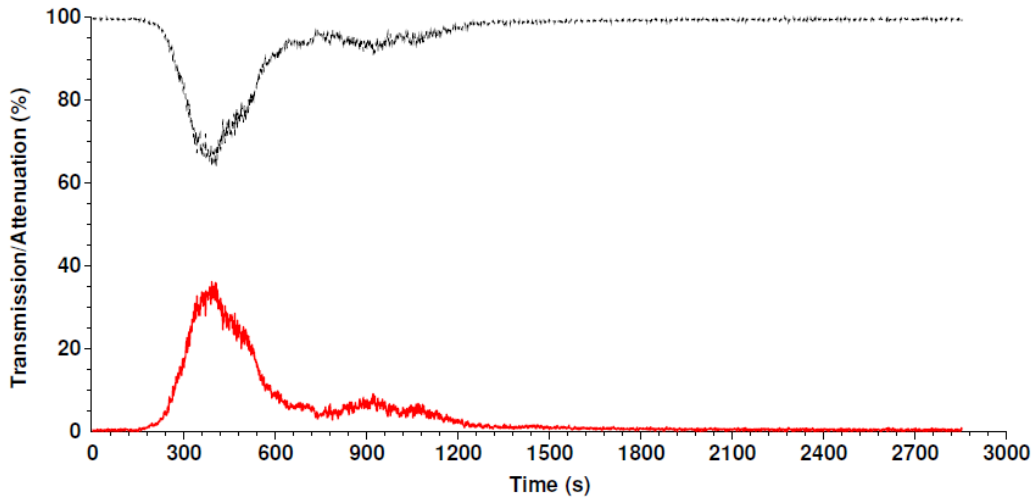
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Sample 1 Width
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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\23110010.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	2.607	510	-	3.3	-
110	304	11.0	3.355	560	-	2.8	-
160	385	10.3	3.958	610	-	2.3	-
210	497	9.4	4.674	660	-	1.9	-
260	606	8.2	4.969	710	-	1.6	-
310	936	7.1	6.603	760	-	1.4	-
360	1310	6.0	7.802	810	-	1.2	-
410	1623	4.9	8.014	860	-	1.1	-
460	2224	4.1	9.056	910	-	1.0	-

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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 19 seconds (139 s)
Time to flameout	: 76 minutes 17 seconds (4577 s)
Extent of burning (mm)	: 530
Critical flux at extinguishment (kW/m ²)	: 3.11
HF-10 (kW/m ²)	: 8.44
HF-20 (kW/m ²)	: 6.18
HF-30 (kW/m ²)	: 4.59
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 430
Peak light attenuation (%)	: 32.72
Time to peak light attenuation	: 6 minutes 28 seconds (388 s)
Total integrated smoke (%.min)	: 202.59

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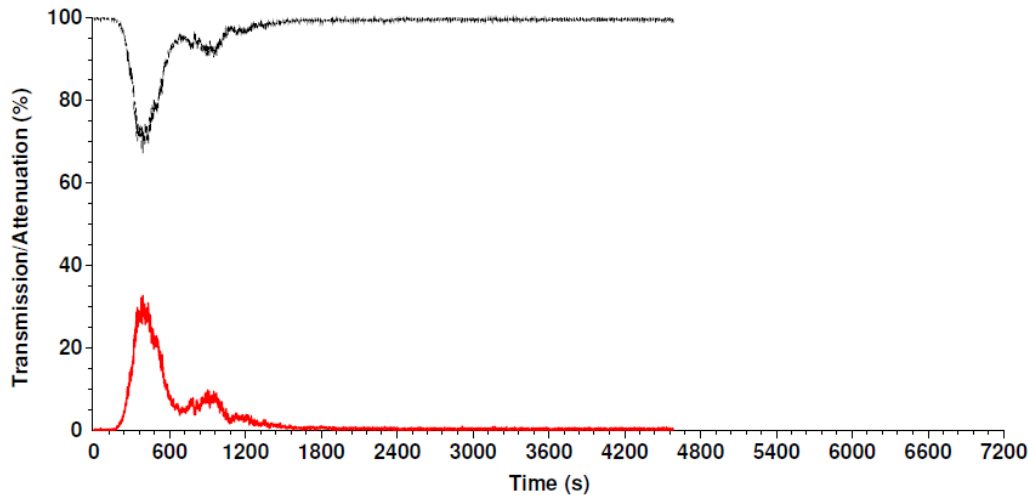
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Sample 2 Length
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Smoke Graph



Test name : LENGTH2
 File name : C:\FRPSOFT\DATA\23110011.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	190	11.9	2.262	510	-	3.3	-
110	247	11.0	2.726	560	-	2.8	-
160	355	10.3	3.650	610	-	2.3	-
210	406	9.4	3.818	660	-	1.9	-
260	647	8.2	5.305	710	-	1.6	-
310	920	7.1	6.490	760	-	1.4	-
360	1274	6.0	7.588	810	-	1.2	-
410	1595	4.9	7.876	860	-	1.1	-
460	2225	4.1	9.060	910	-	1.0	-

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Sample 3 Length

Test Results

Time to ignition	: 2 minutes 14 seconds (134 s)
Time to flameout	: 53 minutes 15 seconds (3195 s)
Extent of burning (mm)	: 540
Critical flux at extinguishment (kW/m ²)	: 3.00
HF-10 (kW/m ²)	: 7.97
HF-20 (kW/m ²)	: 5.55
HF-30 (kW/m ²)	: 4.07
Flame spread at 10 minutes (mm)	: 270
Flame spread at 20 minutes (mm)	: 380
Flame spread at 30 minutes (mm)	: 460
Peak light attenuation (%)	: 46.3
Time to peak light attenuation	: 6 minutes 03 seconds (363 s)
Total integrated smoke (%.min)	: 223.64

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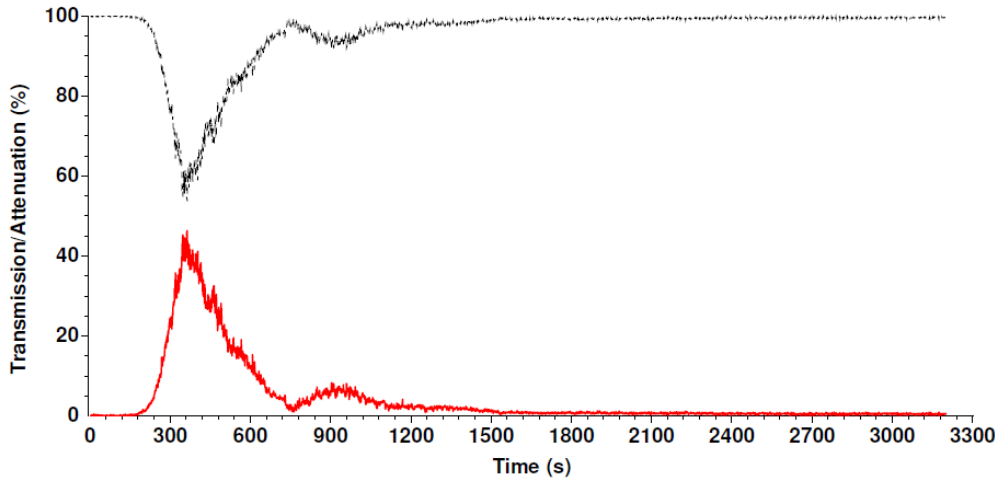
Sample 3 Length

Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH3
 File name : C:\FRPSOFT\DATA\23110012.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	197	11.9	2.345	510	2544	3.3	8.515
110	281	11.0	3.101	560	-	2.8	-
160	373	10.3	3.835	610	-	2.3	-
210	416	9.4	3.912	660	-	1.9	-
260	529	8.2	4.337	710	-	1.6	-
310	787	7.1	5.551	760	-	1.4	-
360	990	6.0	5.896	810	-	1.2	-
410	1525	4.9	7.530	860	-	1.1	-
460	1739	4.1	7.081	910	-	1.0	-

END OF REPORT

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