



TEST REPORT

Sample	Interface Australia PTY LTD	Test Report No:	R23-168
Manufacturing:	34 Airds Road Minto	Sample Received Date:	17/11/2023
	NSW 2566	Test Date:	20/11/2023
	Australia	Report Date:	21/11/2023

Sample	Client Reference: "EMPLOY LOOP"	Test Sponsor:
Description:	Loop Pile Carpet Tile	
	100% Solution Dyed Nylon 6	Interface Australia
	508g/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	4.5	-	-	-	kW/m ²
Width	3.7	3.9	3.6	3.7	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	168	-	-	-	%.min
Width	199	181	178	186	%.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 24 seconds (144 s)
Time to flameout	: 45 minutes 10 seconds (2710 s)
Extent of burning (mm)	: 430
Critical flux at extinguishment (kW/m ²)	: 4.53
HF-10 (kW/m ²)	: 8.38
HF-20 (kW/m ²)	: 6.10
HF-30 (kW/m ²)	: 4.88
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 30.39
Time to peak light attenuation	: 5 minutes (300 s)
Total integrated smoke (%.min)	: 167.61

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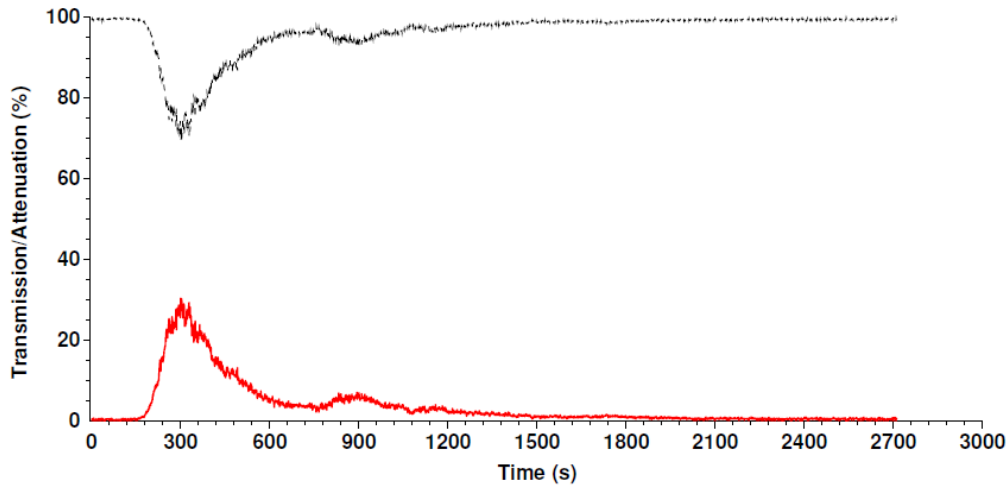
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Sample 1 Width
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\23110033.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	164	12.3	2.023	510	-	3.3	-
110	247	11.3	2.794	560	-	2.7	-
160	366	10.4	3.805	610	-	2.3	-
210	409	9.4	3.829	660	-	1.9	-
260	837	8.1	6.812	710	-	1.7	-
310	1023	7.0	7.133	760	-	1.4	-
360	1235	5.9	7.270	810	-	1.3	-
410	1753	4.9	8.558	860	-	1.1	-
460	-	4.0	-	910	-	1.0	-

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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 20 seconds (140 s)
Time to flameout	: 55 minutes 16 seconds (3316 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m ²)	: 3.70
HF-10 (kW/m ²)	: 8.38
HF-20 (kW/m ²)	: 6.10
HF-30 (kW/m ²)	: 4.88
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 27.04
Time to peak light attenuation	: 4 minutes 49 seconds (289 s)
Total integrated smoke (%.min)	: 199.29

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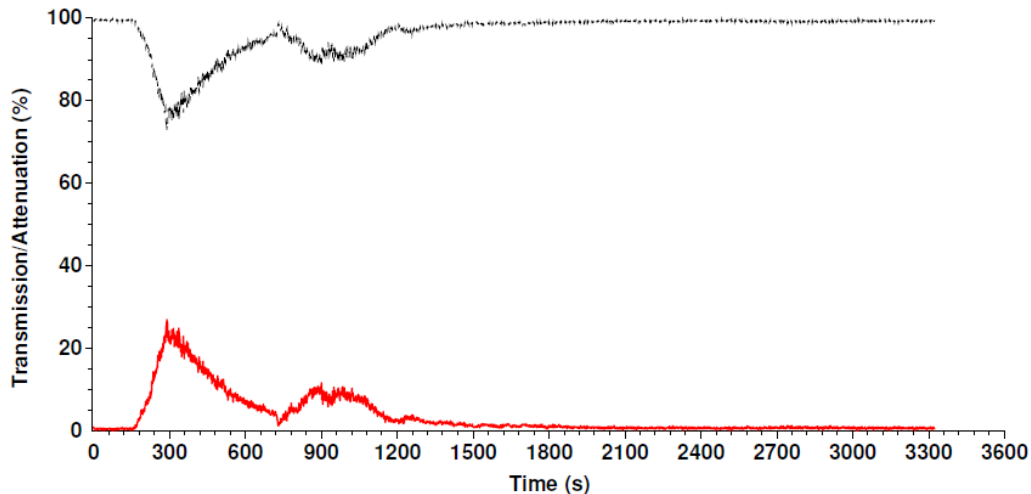
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Sample 1 Width
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\23110034.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	220	12.3	2.714	510	-	3.3	-
110	294	11.3	3.325	560	-	2.7	-
160	376	10.4	3.909	610	-	2.3	-
210	433	9.4	4.054	660	-	1.9	-
260	939	8.1	7.642	710	-	1.7	-
310	961	7.0	6.701	760	-	1.4	-
360	1243	5.9	7.318	810	-	1.3	-
410	1697	4.9	8.285	860	-	1.1	-
460	2699	4.0	10.791	910	-	1.0	-

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Sample 2 Width

Test Results

Time to ignition	: 2 minutes 34 seconds (154 s)
Time to flameout	: 61 minutes 06 seconds (3666 s)
Extent of burning (mm)	: 470
Critical flux at extinguishment (kW/m ²)	: 3.85
HF-10 (kW/m ²)	: 8.38
HF-20 (kW/m ²)	: 6.10
HF-30 (kW/m ²)	: 5.08
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 28.59
Time to peak light attenuation	: 5 minutes 26 seconds (326 s)
Total integrated smoke (%.min)	: 181

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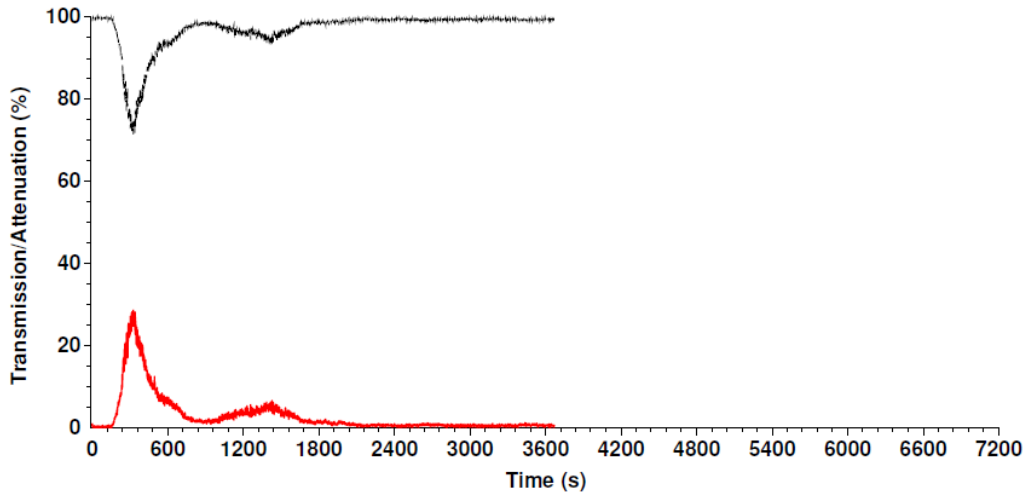
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Sample 2 Width
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : WIDTH2
 File name : C:\FRPSOFT\DATA\23110035.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	182	12.3	2.245	510	-	3.3	-
110	217	11.3	2.454	560	-	2.7	-
160	293	10.4	3.046	610	-	2.3	-
210	442	9.4	4.138	660	-	1.9	-
260	771	8.1	6.274	710	-	1.7	-
310	1105	7.0	7.705	760	-	1.4	-
360	1382	5.9	8.136	810	-	1.3	-
410	1833	4.9	8.949	860	-	1.1	-
460	2676	4.0	10.699	910	-	1.0	-

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Sample 3 Width

Test Results

Time to ignition	: 2 minutes 27 seconds (147 s)
Time to flameout	: 45 minutes 11 seconds (2711 s)
Extent of burning (mm)	: 490
Critical flux at extinguishment (kW/m ²)	: 3.55
HF-10 (kW/m ²)	: 8.38
HF-20 (kW/m ²)	: 6.54
HF-30 (kW/m ²)	: 4.88
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 330
Flame spread at 30 minutes (mm)	: 410
Peak light attenuation (%)	: 27.83
Time to peak light attenuation	: 5 minutes 05 seconds (305 s)
Total integrated smoke (%.min)	: 178.09

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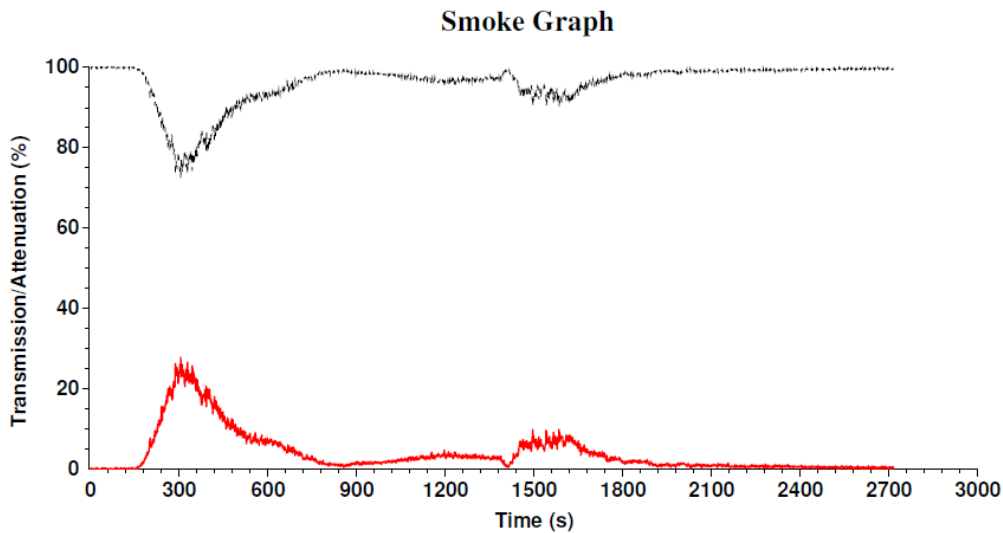
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Sample 3 Width
Light Attenuation Over Time and Rake Results

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Test name : WIDTH3
 File name : C:\FRPSOFT\DATA\23110036.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	238	12.3	2.936	510	-	3.3	-
110	320	11.3	3.620	560	-	2.7	-
160	395	10.4	4.107	610	-	2.3	-
210	485	9.4	4.541	660	-	1.9	-
260	911	8.1	7.414	710	-	1.7	-
310	1099	7.0	7.663	760	-	1.4	-
360	1489	5.9	8.766	810	-	1.3	-
410	1754	4.9	8.563	860	-	1.1	-
460	2145	4.0	8.576	910	-	1.0	-

END OF REPORT

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