



## TEST REPORT

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

Test Report No: R23-063  
Sample Received Date: 10/03/2023  
Test Date: 2/05/2023  
Report Date: 5/05/2023

Sample Description: Client Reference: "PERFECT PAIR  
Loop Pile Carpet Tile  
100% Solution Dyed Nylon 6  
746g/m<sup>2</sup> 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 <sup>2</sup>
Width	4.1	3.6	8.2	5.3	kW/m <sup>2</sup>

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	201	-	-	-	%.min
Width	171	149	132	151	%.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 15 seconds (135 s)
Time to flameout	: 52 minutes 39 seconds (3159 s)
Extent of burning (mm)	: 440
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 4.41
HF-10 (kW/m <sup>2</sup> )	: 8.99
HF-20 (kW/m <sup>2</sup> )	: 6.40
HF-30 (kW/m <sup>2</sup> )	: 5.13
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 340
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 28.89
Time to peak light attenuation	: 6 minutes 34 seconds (394 s)
Total integrated smoke (%.min)	: 200.5



## TEST REPORT

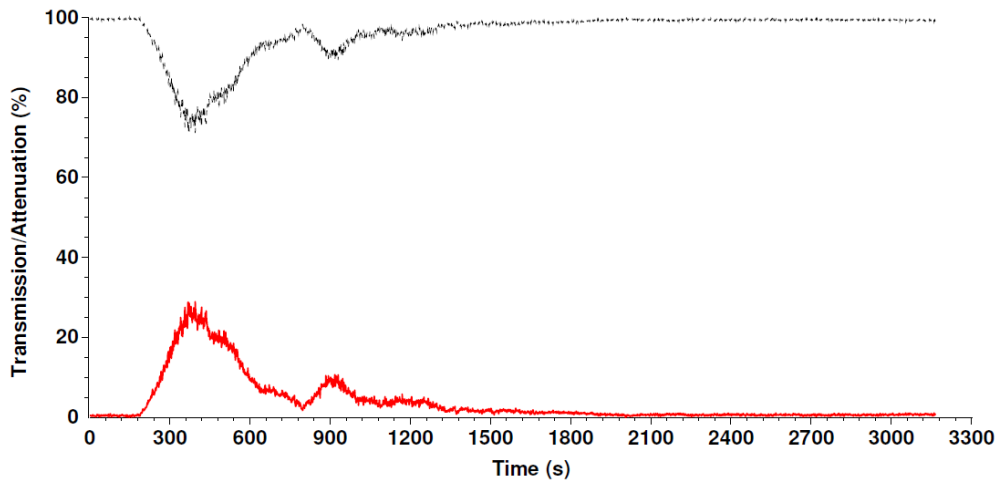
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**Sample 1 Length**  
**Light Attenuation Over Time and Rake Results**

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### Smoke Graph



Test name : LENGTH1  
 File name : C:\FRPSOFT\DATA\23050005.CSV

### Rake Results

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )
60	288	12.0	3.468	510	-	3.3	-
110	352	11.2	3.927	560	-	2.8	-
160	446	10.4	4.630	610	-	2.3	-
210	534	9.5	5.064	660	-	2.0	-
260	806	8.2	6.645	710	-	1.7	-
310	1043	7.1	7.368	760	-	1.5	-
360	1351	6.0	8.043	810	-	1.3	-
410	1945	4.9	9.573	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-



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### Sample 1 Width

### Test Results

Time to ignition	: 2 minutes 13 seconds (133 s)
Time to flameout	: 54 minutes 25 seconds (3265 s)
Extent of burning (mm)	: 460
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 4.06
HF-10 (kW/m <sup>2</sup> )	: 9.24
HF-20 (kW/m <sup>2</sup> )	: 7.06
HF-30 (kW/m <sup>2</sup> )	: 5.54
Flame spread at 10 minutes (mm)	: 220
Flame spread at 20 minutes (mm)	: 310
Flame spread at 30 minutes (mm)	: 380
Peak light attenuation (%)	: 24.75
Time to peak light attenuation	: 5 minutes 26 seconds (326 s)
Total integrated smoke (%.min)	: 170.73



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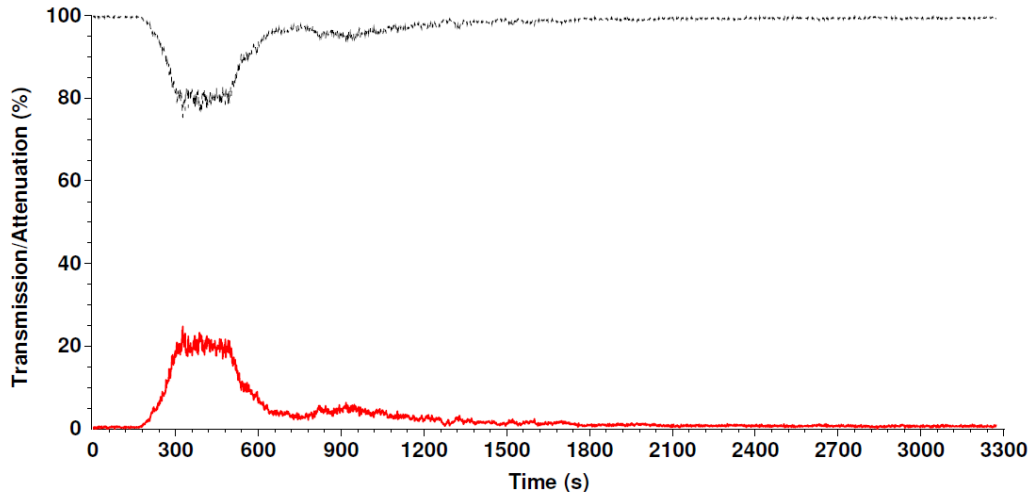
### Sample 1 Width

### Light Attenuation Over Time and Rake Results

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### Smoke Graph



Test name : WIDTH1  
 File name : C:\FRPSOFT\DATA\23050006.CSV

### Rake Results

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )
60	242	12.0	2.914	510	-	3.3	-
110	370	11.2	4.128	560	-	2.8	-
160	442	10.4	4.588	610	-	2.3	-
210	573	9.5	5.434	660	-	2.0	-
260	885	8.2	7.296	710	-	1.7	-
310	1175	7.1	8.300	760	-	1.5	-
360	1610	6.0	9.584	810	-	1.3	-
410	2305	4.9	11.345	860	-	1.1	-
460	3013	4.1	12.245	910	-	1.0	-



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### Sample 2 Width

#### Test Results

Time to ignition	: 2 minutes 20 seconds (140 s)
Time to flameout	: 69 minutes 49 seconds (4189 s)
Extent of burning (mm)	: 490
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.63
HF-10 (kW/m <sup>2</sup> )	: 8.74
HF-20 (kW/m <sup>2</sup> )	: 6.40
HF-30 (kW/m <sup>2</sup> )	: 5.33
Flame spread at 10 minutes (mm)	: 240
Flame spread at 20 minutes (mm)	: 340
Flame spread at 30 minutes (mm)	: 390
Peak light attenuation (%)	: 28.31
Time to peak light attenuation	: 7 minutes 35 seconds (455 s)
Total integrated smoke (%.min)	: 149.12



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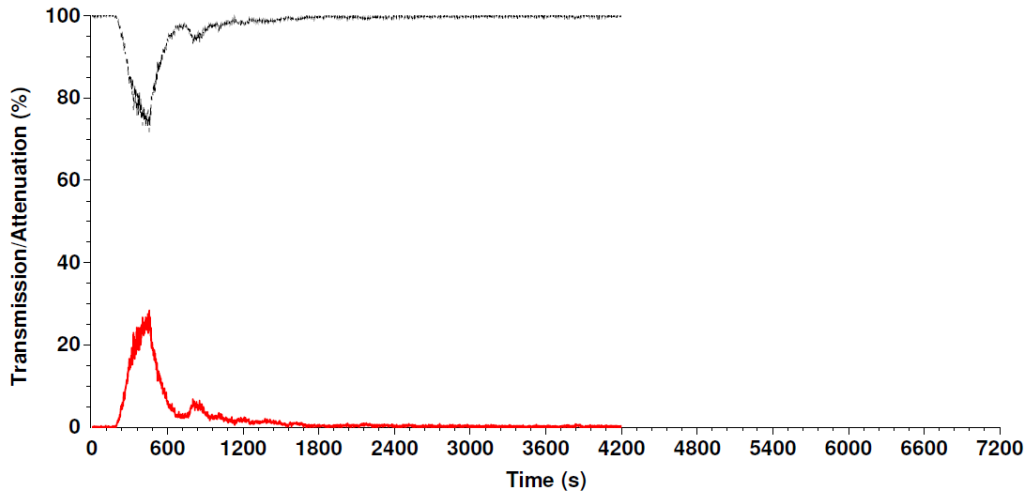
### Sample 2 Width

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### Smoke Graph



Test name : WIDTH2  
 File name : C:\FRPSOFT\DATA\23050007.CSV

### Rake Results

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )
60	281	12.0	3.384	510	-	3.3	-
110	339	11.2	3.782	560	-	2.8	-
160	411	10.4	4.267	610	-	2.3	-
210	529	9.5	5.017	660	-	2.0	-
260	722	8.2	5.952	710	-	1.7	-
310	1029	7.1	7.269	760	-	1.5	-
360	1414	6.0	8.418	810	-	1.3	-
410	2025	4.9	9.967	860	-	1.1	-
460	2838	4.1	11.534	910	-	1.0	-



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### Sample 3 Width

#### Test Results

Time to ignition	: 2 minutes 14 seconds (134 s)
Time to flameout	: 17 minutes 29 seconds (1049 s)
Extent of burning (mm)	: 260
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 8.24
HF-10 (kW/m <sup>2</sup> )	: 8.49
HF-20 (kW/m <sup>2</sup> )	: Not calculated (test duration < 20 minutes)
HF-30 (kW/m <sup>2</sup> )	: Not calculated (test duration < 30 minutes)
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: Not measured
Flame spread at 30 minutes (mm)	: Not measured
Peak light attenuation (%)	: 34.39
Time to peak light attenuation	: 6 minutes 07 seconds (367 s)
Total integrated smoke (%.min)	: 132.08





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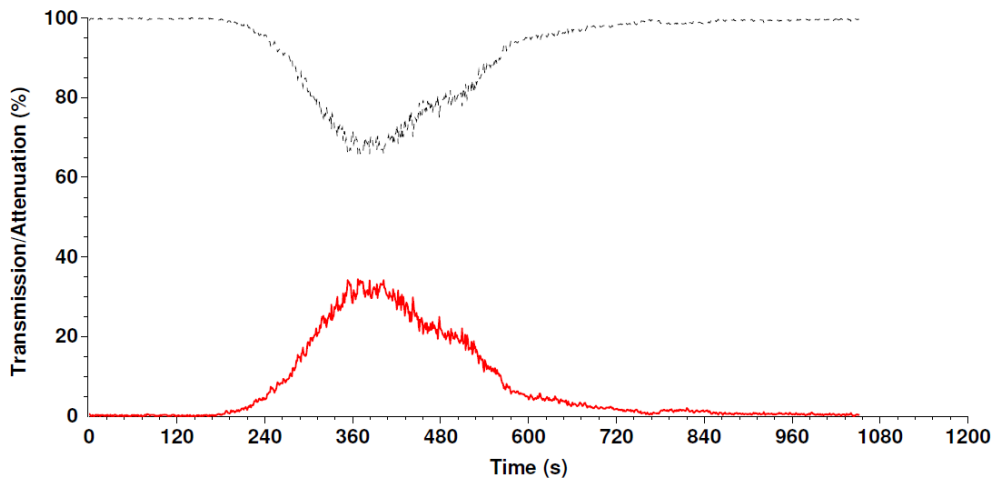
### Sample 3 Width

### Light Attenuation Over Time and Rake Results

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### Smoke Graph



Test name : WIDTH3  
 File name : C:\FRPSOFT\DATA\23050008.CSV

### Rake Results

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )
60	234	12.0	2.818	510	-	3.3	-
110	316	11.2	3.526	560	-	2.8	-
160	378	10.4	3.924	610	-	2.3	-
210	463	9.5	4.391	660	-	2.0	-
260	719	8.2	5.927	710	-	1.7	-
310	-	7.1	-	760	-	1.5	-
360	-	6.0	-	810	-	1.3	-
410	-	4.9	-	860	-	1.1	-
460	-	4.1	-	910	-	1.0	-

END OF REPORT