



## TEST REPORT

Sample	Interface Australia PTY LTD	Test Report No:	R22-045
Manufacturing:	34 Airds Road Minto	Sample Received Date:	10/01/2022
	NSW 2566	Test Date:	16/02/2022
	Australia	Report Date:	17/02/2022

Sample	Client Reference: "OPEN AIR 404	Test Sponsor:
Description:	TRANSITION"	
	Loop Pile Carpet Tile	
	100% Solution Dyed Nylon 6	Interface Australia
	610g/m <sup>2</sup> 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	3.5	3.5	3.8	3.6	kW/m <sup>2</sup>
Width	3.6	-	-	-	kW/m <sup>2</sup>
Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	146	153	155	151	%.min
Width	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.

KARTHIK BHASKARAN  
Materials Scientist

APPROVED SIGNATORY



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### Sample 1 Length

#### Test Results

Time to ignition	: 2 minutes 20 seconds (140 s)
Time to flameout	: 51 minutes 15 seconds (3075 s)
Extent of burning (mm)	: 500
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.46
HF-10 (kW/m <sup>2</sup> )	: 8.44
HF-20 (kW/m <sup>2</sup> )	: 6.38
HF-30 (kW/m <sup>2</sup> )	: 4.43
Flame spread at 10 minutes (mm)	: 260
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 440
Peak light attenuation (%)	: 33.47
Time to peak light attenuation	: 5 minutes 40 seconds (340 s)
Total integrated smoke (%.min)	: 145.51



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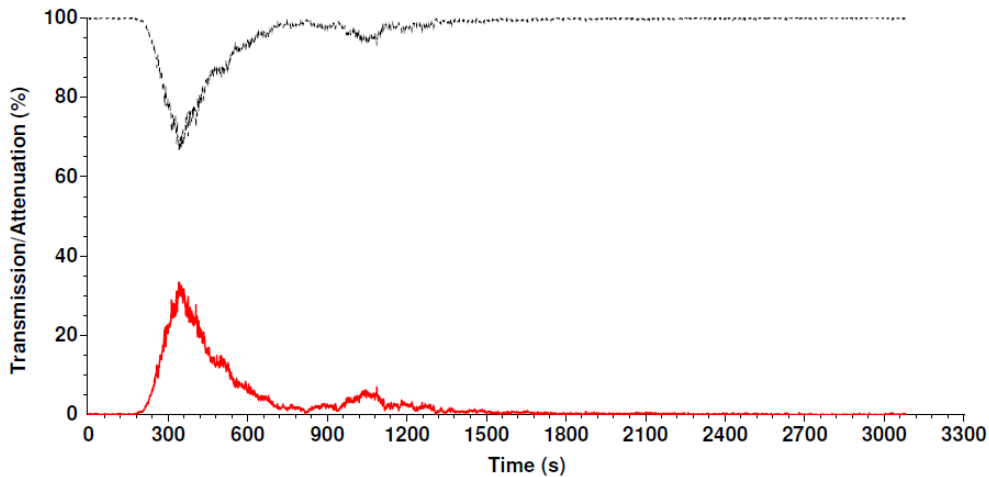
### Sample 1 Length

### Light Attenuation Over Time and Rake Results

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#### Smoke Graph



Test name : LENGTH1  
 File name : C:\FRPSOFT\DATA\22020021.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	182	11.9	2.169	510	-	3.3	-
110	293	11.1	3.251	560	-	2.7	-
160	358	10.4	3.717	610	-	2.3	-
210	444	9.6	4.242	660	-	1.9	-
260	586	8.4	4.943	710	-	1.7	-
310	891	7.4	6.575	760	-	1.4	-
360	1238	6.1	7.593	810	-	1.2	-
410	1541	5.0	7.654	860	-	1.1	-
460	2120	4.1	8.620	910	-	1.0	-



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### Sample 1 Width

#### Test Results

Time to ignition	: 2 minutes 25 seconds (145 s)
Time to flameout	: 40 minutes 53 seconds (2453 s)
Extent of burning (mm)	: 490
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.61
HF-10 (kW/m <sup>2</sup> )	: 8.66
HF-20 (kW/m <sup>2</sup> )	: 6.13
HF-30 (kW/m <sup>2</sup> )	: 4.25
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 450
Peak light attenuation (%)	: 40.36
Time to peak light attenuation	: 5 minutes 56 seconds (356 s)
Total integrated smoke (%.min)	: 185.98



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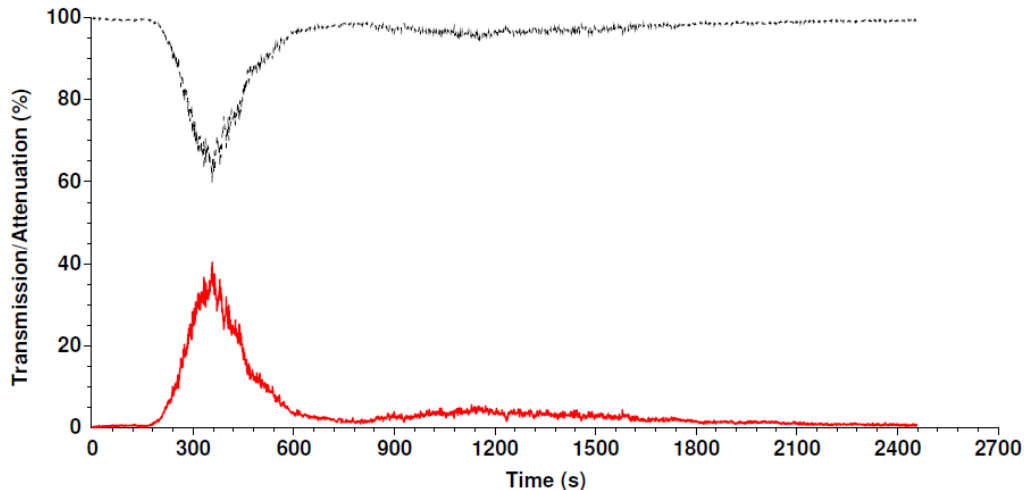
### Sample 1 Width

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### Smoke Graph



Test name : WIDTH1  
 File name : C:\FRPSOFT\DATA\22020022.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	229	11.9	2.729	510	-	3.3	-
110	269	11.1	2.985	560	-	2.7	-
160	323	10.4	3.354	610	-	2.3	-
210	432	9.6	4.127	660	-	1.9	-
260	643	8.4	5.424	710	-	1.7	-
310	935	7.4	6.899	760	-	1.4	-
360	1198	6.1	7.347	810	-	1.2	-
410	1501	5.0	7.455	860	-	1.1	-
460	1930	4.1	7.847	910	-	1.0	-



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### Sample 2 Length

### Test Results

Time to ignition	: 2 minutes 34 seconds (154 s)
Time to flameout	: 40 minutes 58 seconds (2458 s)
Extent of burning (mm)	: 500
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.46
HF-10 (kW/m <sup>2</sup> )	: 9.55
HF-20 (kW/m <sup>2</sup> )	: 6.13
HF-30 (kW/m <sup>2</sup> )	: 4.07
Flame spread at 10 minutes (mm)	: 210
Flame spread at 20 minutes (mm)	: 360
Flame spread at 30 minutes (mm)	: 460
Peak light attenuation (%)	: 28.25
Time to peak light attenuation	: 6 minutes 47 seconds (407 s)
Total integrated smoke (%.min)	: 153.15



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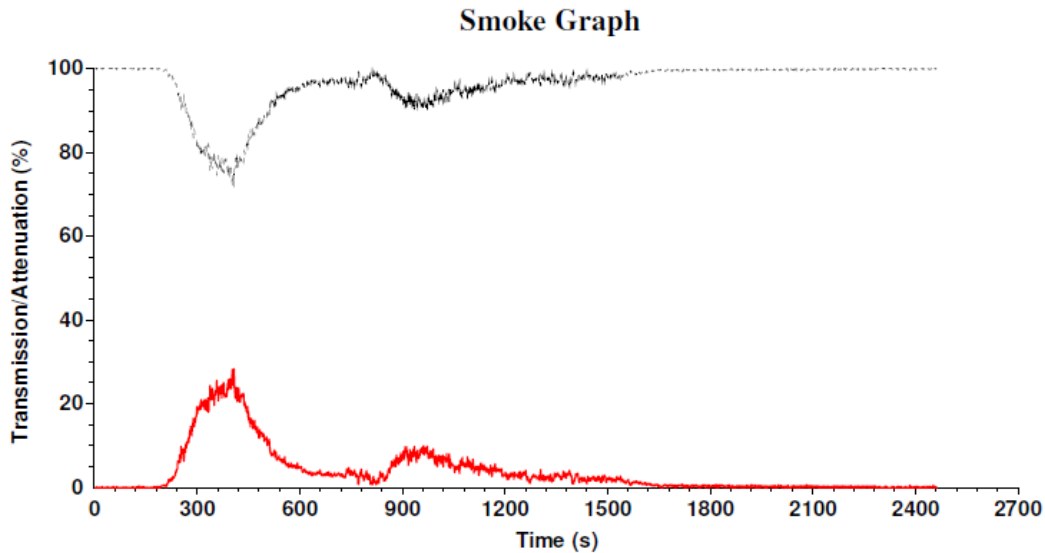
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### Sample 2 Length

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Test name : LENGTH2  
 File name : C:\FRPSOFT\DATA\22020023.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	227	11.9	2.705	510	-	3.3	-
110	319	11.1	3.539	560	-	2.7	-
160	400	10.4	4.154	610	-	2.3	-
210	564	9.6	5.388	660	-	1.9	-
260	832	8.4	7.019	710	-	1.7	-
310	1019	7.4	7.519	760	-	1.4	-
360	1181	6.1	7.243	810	-	1.2	-
410	1404	5.0	6.974	860	-	1.1	-
460	1775	4.1	7.217	910	-	1.0	-



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### Sample 3 Length

#### Test Results

Time to ignition	: 2 minutes 25 seconds (145 s)
Time to flameout	: 45 minutes 49 seconds (2749 s)
Extent of burning (mm)	: 480
Critical flux at extinguishment (kW/m <sup>2</sup> )	: 3.76
HF-10 (kW/m <sup>2</sup> )	: 8.66
HF-20 (kW/m <sup>2</sup> )	: 5.67
HF-30 (kW/m <sup>2</sup> )	: 4.61
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 380
Flame spread at 30 minutes (mm)	: 430
Peak light attenuation (%)	: 26.53
Time to peak light attenuation	: 4 minutes 49 seconds (289 s)
Total integrated smoke (%.min)	: 154.84





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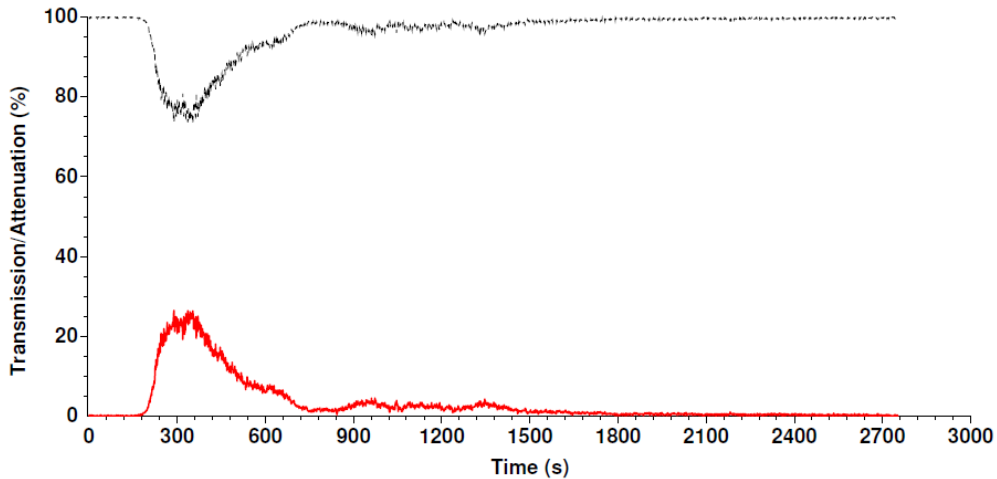
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**Sample 3 Length**  
**Light Attenuation Over Time and Rake Results**

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### Smoke Graph



Test name : LENGTH3  
 File name : C:\FRPSOFT\DATA\22020024.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	199	11.9	2.371	510	-	3.3	-
110	288	11.1	3.195	560	-	2.7	-
160	374	10.4	3.884	610	-	2.3	-
210	474	9.6	4.528	660	-	1.9	-
260	671	8.4	5.661	710	-	1.7	-
310	930	7.4	6.862	760	-	1.4	-
360	1114	6.1	6.832	810	-	1.2	-
410	1417	5.0	7.038	860	-	1.1	-
460	2204	4.1	8.961	910	-	1.0	-

END OF REPORT