



TEST REPORT

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

Test Report No: R21-240
Sample Received Date: 10/11/2021
Test Date: 1/12/2021
Report Date: 9/12/2021

Sample Description: Client Reference: "OPEN AIR 403 ACCENT"
Loop Pile Carpet Tile
100% Solution Dyed Nylon 6
610g/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	3.3	3.9	3.4	3.5	kW/m ²
Width	3.6	-	-	-	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	206	194	204	201	%.min
Width	222	-	-	-	%.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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Sample 1 Length

Test Results

Time to ignition	: 2 minutes 26 seconds (146 s)
Time to flameout	: 48 minutes 59 seconds (2939 s)
Extent of burning (mm)	: 510
Critical flux at extinguishment (kW/m ²)	: 3.29
HF-10 (kW/m ²)	: 8.37
HF-20 (kW/m ²)	: 5.12
HF-30 (kW/m ²)	: 4.04
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 400
Flame spread at 30 minutes (mm)	: 460
Peak light attenuation (%)	: 34.1
Time to peak light attenuation	: 6 minutes 11 seconds (371 s)
Total integrated smoke (%.min)	: 206.15



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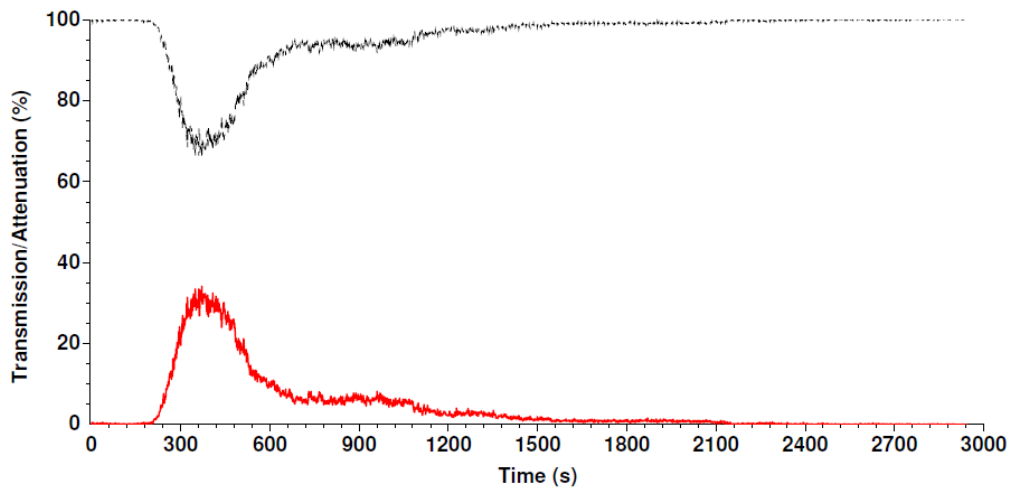
Sample 1 Length

Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\21120001.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	212	12.0	2.536	510	2673	3.3	8.789
110	296	11.1	3.271	560	-	2.7	-
160	362	10.2	3.710	610	-	2.3	-
210	443	9.3	4.131	660	-	1.9	-
260	639	8.1	5.195	710	-	1.6	-
310	869	7.0	6.079	760	-	1.4	-
360	1138	5.9	6.735	810	-	1.2	-
410	1349	4.9	6.640	860	-	1.1	-
460	1775	4.0	7.162	910	-	1.0	-



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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 32 seconds (152 s)
Time to flameout	: 43 minutes 44 seconds (2624 s)
Extent of burning (mm)	: 490
Critical flux at extinguishment (kW/m ²)	: 3.59
HF-10 (kW/m ²)	: 8.37
HF-20 (kW/m ²)	: 5.32
HF-30 (kW/m ²)	: 4.39
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 390
Flame spread at 30 minutes (mm)	: 440
Peak light attenuation (%)	: 40.49
Time to peak light attenuation	: 5 minutes 43 seconds (343 s)
Total integrated smoke (%.min)	: 222.01



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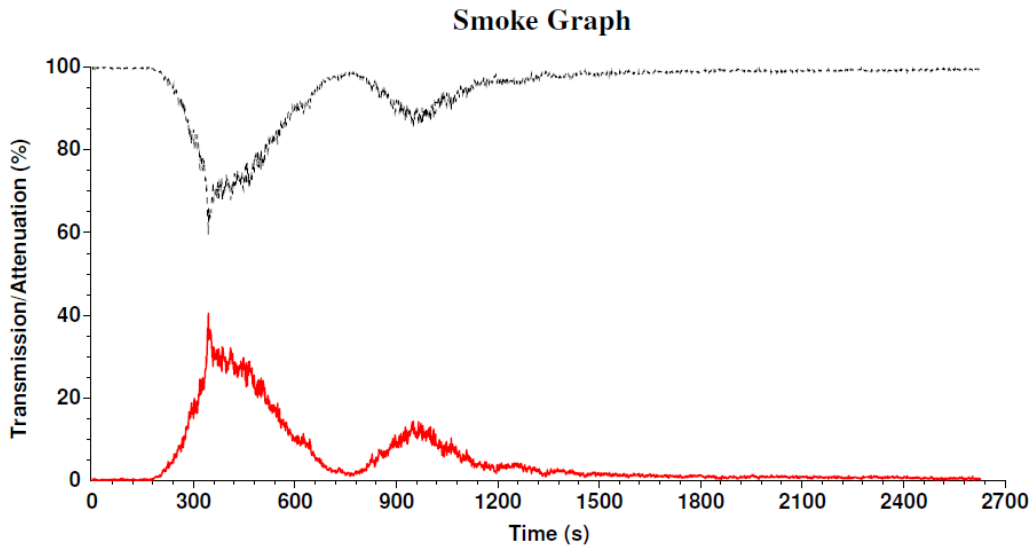
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Sample 1 Width

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Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\21120002.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	226	12.0	2.704	510	-	3.3	-
110	289	11.1	3.194	560	-	2.7	-
160	366	10.2	3.751	610	-	2.3	-
210	441	9.3	4.113	660	-	1.9	-
260	656	8.1	5.333	710	-	1.6	-
310	885	7.0	6.191	760	-	1.4	-
360	1154	5.9	6.829	810	-	1.2	-
410	1480	4.9	7.285	860	-	1.1	-
460	1995	4.0	8.050	910	-	1.0	-



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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 32 seconds (152 s)
Time to flameout	: 43 minutes 03 seconds (2583 s)
Extent of burning (mm)	: 470
Critical flux at extinguishment (kW/m ²)	: 3.89
HF-10 (kW/m ²)	: 8.37
HF-20 (kW/m ²)	: 6.13
HF-30 (kW/m ²)	: 4.57
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 430
Peak light attenuation (%)	: 37.07
Time to peak light attenuation	: 5 minutes 42 seconds (342 s)
Total integrated smoke (%.min)	: 194.05



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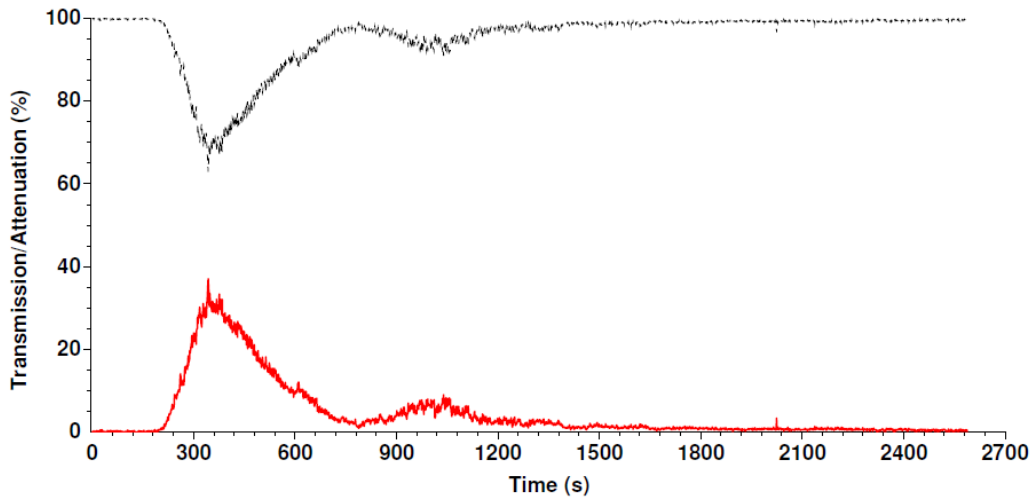
Sample 2 Length

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Smoke Graph



Test name : LENGTH2
 File name : C:\FRPSOFT\DATA\21120003.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	232	12.0	2.776	510	-	3.3	-
110	298	11.1	3.293	560	-	2.7	-
160	350	10.2	3.587	610	-	2.3	-
210	471	9.3	4.393	660	-	1.9	-
260	717	8.1	5.829	710	-	1.6	-
310	960	7.0	6.715	760	-	1.4	-
360	1332	5.9	7.883	810	-	1.2	-
410	1661	4.9	8.175	860	-	1.1	-
460	2293	4.0	9.252	910	-	1.0	-



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Sample 3 Length

Test Results

Time to ignition	: 2 minutes 34 seconds (154 s)
Time to flameout	: 46 minutes 30 seconds (2790 s)
Extent of burning (mm)	: 500
Critical flux at extinguishment (kW/m ²)	: 3.44
HF-10 (kW/m ²)	: 8.85
HF-20 (kW/m ²)	: 5.32
HF-30 (kW/m ²)	: 4.21
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 390
Flame spread at 30 minutes (mm)	: 450
Peak light attenuation (%)	: 35.37
Time to peak light attenuation	: 5 minutes 58 seconds (358 s)
Total integrated smoke (%.min)	: 203.64



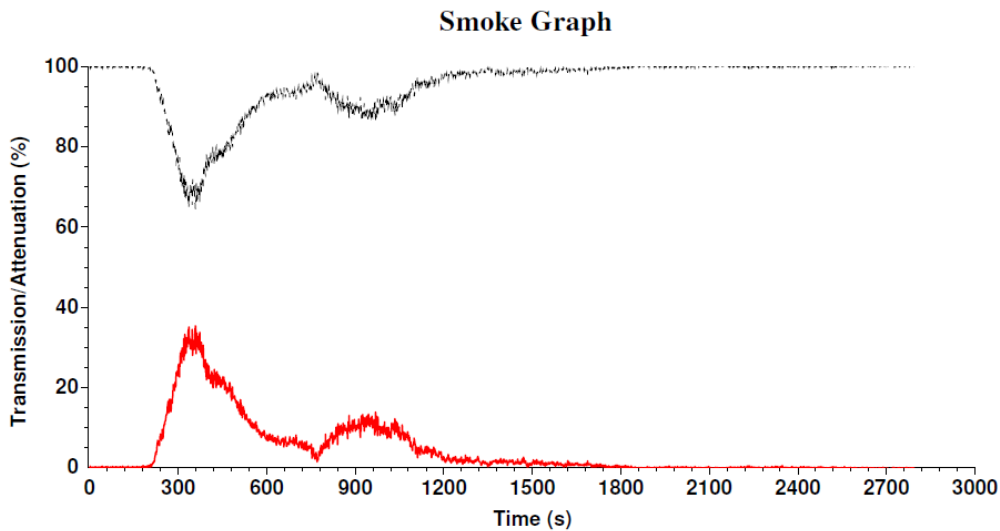
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Sample 3 Length
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Test name : LENGTH3
 File name : C:\FRPSOFT\DATA\21120004.CSV

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	212	12.0	2.536	510	-	3.3	-
110	287	11.1	3.172	560	-	2.7	-
160	374	10.2	3.833	610	-	2.3	-
210	453	9.3	4.225	660	-	1.9	-
260	820	8.1	6.667	710	-	1.6	-
310	927	7.0	6.484	760	-	1.4	-
360	1090	5.9	6.451	810	-	1.2	-
410	1437	4.9	7.073	860	-	1.1	-
460	1855	4.0	7.485	910	-	1.0	-

END OF REPORT