



TEST REPORT

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

Test Report No: R22-105
Sample Received Date: 14/02/2022
Test Date: 6/04/2022
Report Date: 8/04/2022

Sample Description: Client Reference: "WG100"
Loop Pile Carpet Tile
100% Solution Dyed Nylon 6
780g/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	4.0	4.0	4.4	4.1	kW/m ²
Width	4.4	-	-	-	kW/m ²

Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	183	156	154	165	%.min
Width	179	-	-	-	%.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 25 seconds (145 s)
Time to flameout	: 54 minutes 15 seconds (3255 s)
Extent of burning (mm)	: 460
Critical flux at extinguishment (kW/m ²)	: 4.00
HF-10 (kW/m ²)	: 8.50
HF-20 (kW/m ²)	: 6.12
HF-30 (kW/m ²)	: 5.09
Flame spread at 10 minutes (mm)	: 250
Flame spread at 20 minutes (mm)	: 350
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 35.55
Time to peak light attenuation	: 6 minutes 09 seconds (369 s)
Total integrated smoke (%.min)	: 182.77



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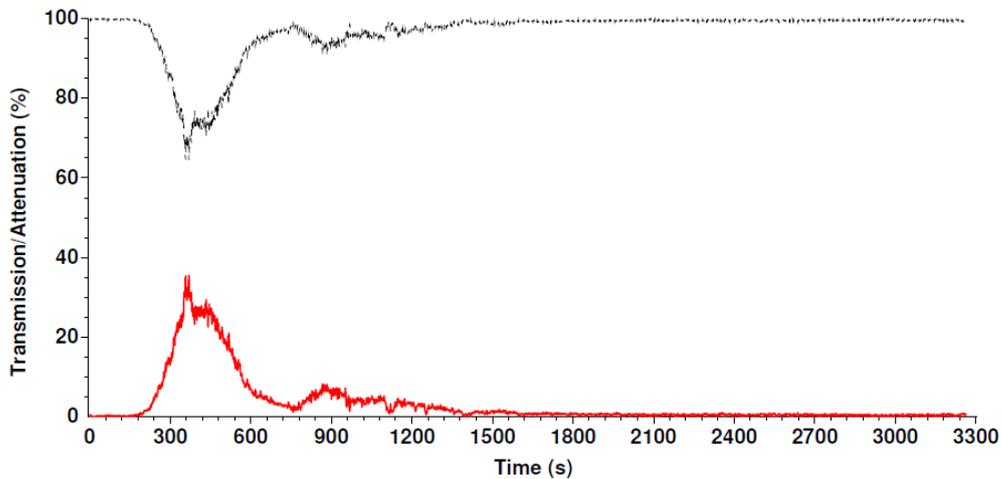
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Sample 1 Length
Light Attenuation Over Time and Rake Results

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Smoke Graph



Test name : LENGTH1
 File name : C:\FRPSOFT\DATA\22040005.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	261	12.2	3.191	510	-	3.3	-
110	304	11.3	3.434	560	-	2.7	-
160	370	10.5	3.876	610	-	2.3	-
210	466	9.5	4.445	660	-	1.9	-
260	794	8.2	6.543	710	-	1.6	-
310	987	7.0	6.911	760	-	1.4	-
360	1301	5.9	7.680	810	-	1.2	-
410	1874	4.9	9.154	860	-	1.0	-
460	2718	4.0	10.872	910	-	0.9	-



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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)	: 440
Critical flux at extinguishment (kW/m ²)	: 4.35
HF-10 (kW/m ²)	: 9.02
HF-20 (kW/m ²)	: 6.34
HF-30 (kW/m ²)	: 5.09
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 340
Flame spread at 30 minutes (mm)	: 400
Peak light attenuation (%)	: 26.12
Time to peak light attenuation	: 7 minutes 25 seconds (445 s)
Total integrated smoke (%.min)	: 178.91



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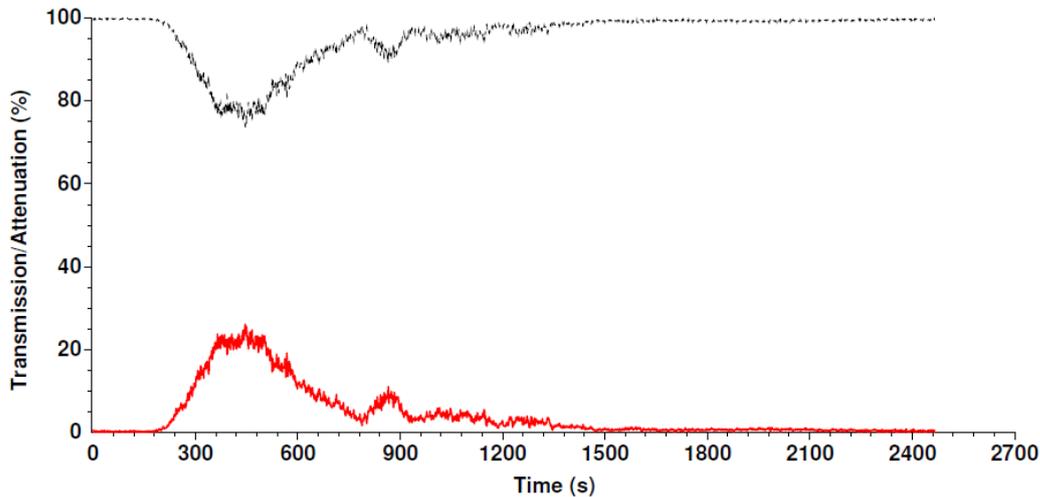
Sample 1 Width

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Smoke Graph



Test name : WIDTH1
 File name : C:\FRPSOFT\DATA\22040006.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	233	12.2	2.848	510	-	3.3	-
110	334	11.3	3.773	560	-	2.7	-
160	424	10.5	4.442	610	-	2.3	-
210	509	9.5	4.855	660	-	1.9	-
260	768	8.2	6.328	710	-	1.6	-
310	998	7.0	6.988	760	-	1.4	-
360	1323	5.9	7.810	810	-	1.2	-
410	1870	4.9	9.135	860	-	1.0	-
460	-	4.0	-	910	-	0.9	-



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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 29 seconds (149 s)
Time to flameout	: 56 minutes 42 seconds (3402 s)
Extent of burning (mm)	: 460
Critical flux at extinguishment (kW/m ²)	: 4.00
HF-10 (kW/m ²)	: 9.02
HF-20 (kW/m ²)	: 7.00
HF-30 (kW/m ²)	: 5.50
Flame spread at 10 minutes (mm)	: 230
Flame spread at 20 minutes (mm)	: 310
Flame spread at 30 minutes (mm)	: 380
Peak light attenuation (%)	: 27.3
Time to peak light attenuation	: 7 minutes 22 seconds (442 s)
Total integrated smoke (%.min)	: 156.48



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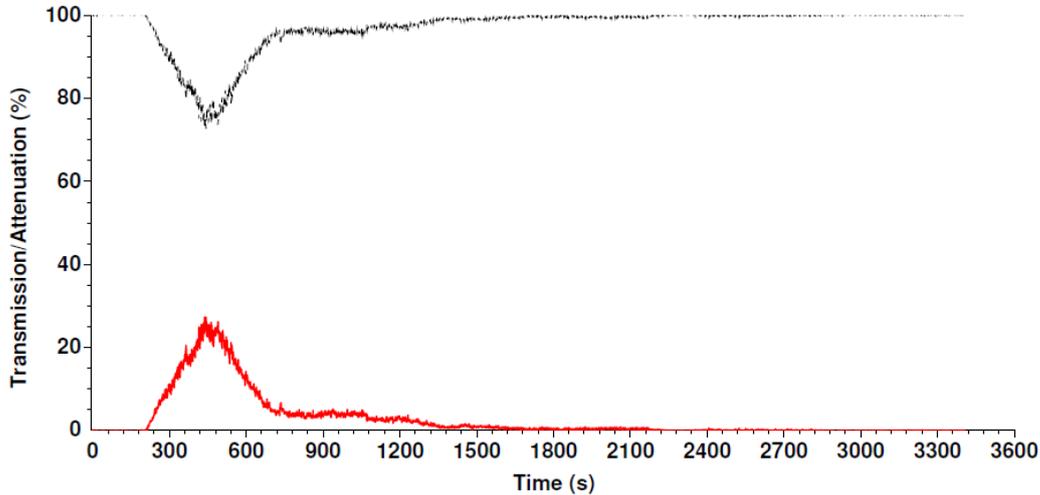
Sample 2 Length

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Smoke Graph



Test name : LENGTH2
 File name : C:\FRPSOFT\DATA\22040007.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	210	12.2	2.567	510	-	3.3	-
110	327	11.3	3.694	560	-	2.7	-
160	432	10.5	4.526	610	-	2.3	-
210	532	9.5	5.075	660	-	1.9	-
260	831	8.2	6.847	710	-	1.6	-
310	1147	7.0	8.031	760	-	1.4	-
360	1557	5.9	9.191	810	-	1.2	-
410	2125	4.9	10.381	860	-	1.0	-
460	2849	4.0	11.396	910	-	0.9	-



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Sample 3 Length

Test Results

Time to ignition	: 2 minutes 25 seconds (145 s)
Time to flameout	: 40 minutes 55 seconds (2455 s)
Extent of burning (mm)	: 440
Critical flux at extinguishment (kW/m ²)	: 4.35
HF-10 (kW/m ²)	: 9.54
HF-20 (kW/m ²)	: 7.25
HF-30 (kW/m ²)	: 5.50
Flame spread at 10 minutes (mm)	: 210
Flame spread at 20 minutes (mm)	: 300
Flame spread at 30 minutes (mm)	: 380
Peak light attenuation (%)	: 21.18
Time to peak light attenuation	: 7 minutes 22 seconds (442 s)
Total integrated smoke (%.min)	: 154.24



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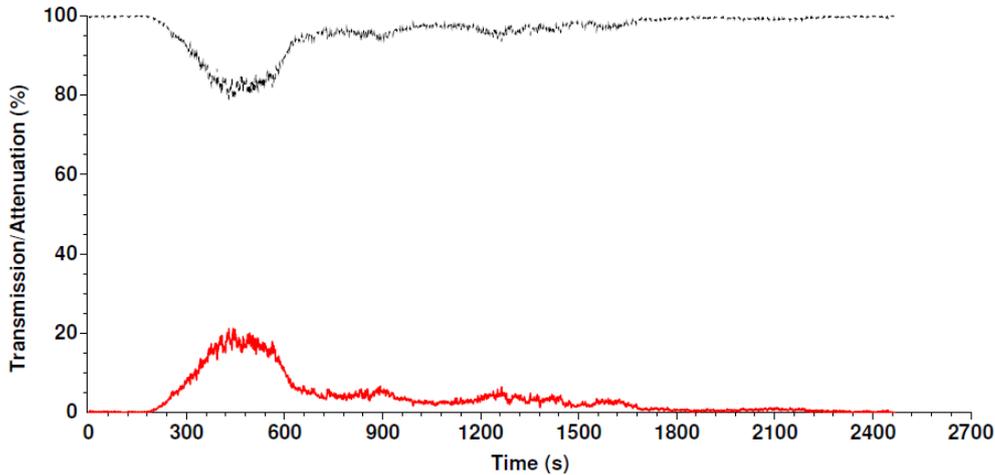
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Sample 3 Length
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Smoke Graph



Test name : LENGTH3
 File name : C:\FRPSOFT\DATA\22040008.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	263	12.2	3.215	510	-	3.3	-
110	368	11.3	4.157	560	-	2.7	-
160	466	10.5	4.882	610	-	2.3	-
210	623	9.5	5.943	660	-	1.9	-
260	893	8.2	7.358	710	-	1.6	-
310	1293	7.0	9.054	760	-	1.4	-
360	1661	5.9	9.805	810	-	1.2	-
410	2127	4.9	10.390	860	-	1.0	-
460	-	4.0	-	910	-	0.9	-

END OF REPORT