



TEST REPORT

Client: Interface Thailand
Amata Nakorn Industrial Estate
700/117 Moo 1, Bankao, Panthong
Chonburi 20160

Test Report No: R20-025
Sample Received date: 16/12/2019
Test Date: 04/02/2020
Report Date: 06/02/2020

Sample Description: Client Reference: "WORKS EON"
100% Solution Dyed Nylon 6
407g/m² on a Glasbac Backing

AS ISO 9239.1: 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	3.7	8.3	3.6	5.2	kW/m ²
Width	8.3	-	-	-	kW/m ²
Smoke Value	Sample 1	Sample 2	Sample 3	Mean	
Length	193	126	177	166	%.min
Width	126	-	-	-	%.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 48 hours prior to testing.

Each Specimen was adhered to a substrate of 9mm thick fibre cement board using Intertac adhesive.



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Sample 1 Length

Test Results

Time to ignition	: 2 minutes 40 seconds (160 s)
Time to flameout	: 38 minutes 57 seconds (2337 s)
Extent of burning (mm)	: 490
Critical flux at extinguishment (kW/m ²)	: 3.74
HF-10 (kW/m ²)	: 7.70
HF-20 (kW/m ²)	: 4.92
HF-30 (kW/m ²)	: 3.89
Flame spread at 10 minutes (mm)	: 280
Flame spread at 20 minutes (mm)	: 420
Flame spread at 30 minutes (mm)	: 480
Peak light attenuation (%)	: 43.07
Time to peak light attenuation	: 4 minutes 46 seconds (286 s)
Total integrated smoke (%.min)	: 193.49



SYDNEY CARPET LABORATORY

OF INTERFACE AUST. PTY LIMITED - ABN 39 000 692 026

34 AIRDS ROAD, MINTO NSW 2566 - TEL: (02) 8706 4600 FAX: (02) 8706 4617

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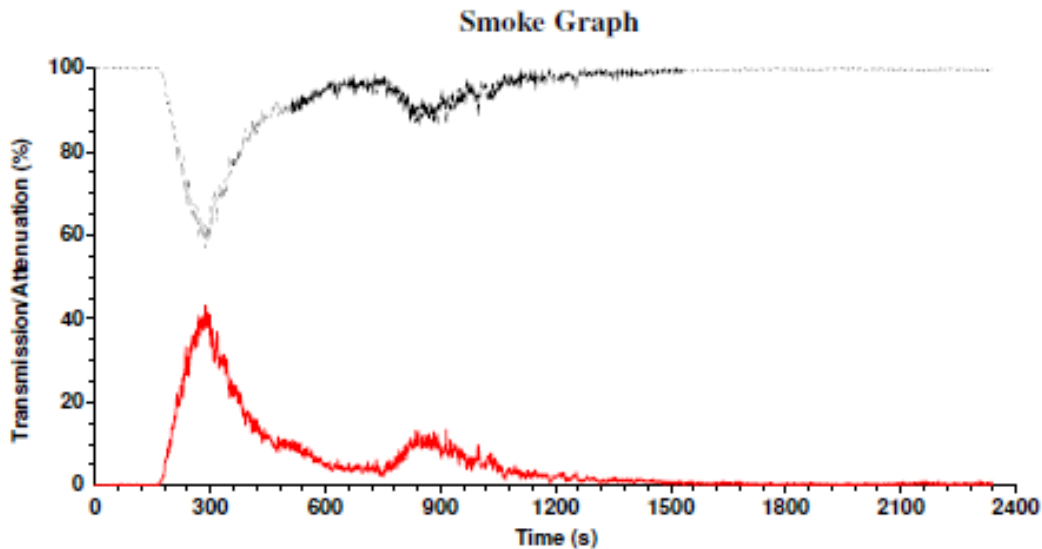
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Sample 1 Length

Light Attenuation Over Time and Rake Results

Report produced with the Fire Testing Technology FRPSoft software

page 3



Test name : LENGTH1
File name : C:\FRPSOFT\DATA\20020005.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	168	12.2	2.042	510	-	3.4	-
110	239	11.1	2.659	560	-	2.8	-
160	329	10.2	3.358	610	-	2.3	-
210	351	9.2	3.218	660	-	2.0	-
260	495	8.1	4.012	710	-	1.7	-
310	717	7.1	5.092	760	-	1.4	-
360	913	6.1	5.533	810	-	1.2	-
410	1117	5.1	5.693	860	-	1.1	-
460	1621	4.2	6.805	910	-	0.9	-



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Sample 1 Width

Test Results

Time to ignition	: 2 minutes 40 seconds (160 s)
Time to flameout	: 14 minutes 30 seconds (870 s)
Extent of burning (mm)	: 250
Critical flux at extinguishment (kW/m ²)	: 8.32
HF-10 (kW/m ²)	: 8.32
HF-20 (kW/m ²)	: Not calculated (test duration < 20 minutes)
HF-30 (kW/m ²)	: 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 (%)	: 41.49
Time to peak light attenuation	: 4 minutes 37 seconds (277 s)
Total integrated smoke (%.min)	: 125.71



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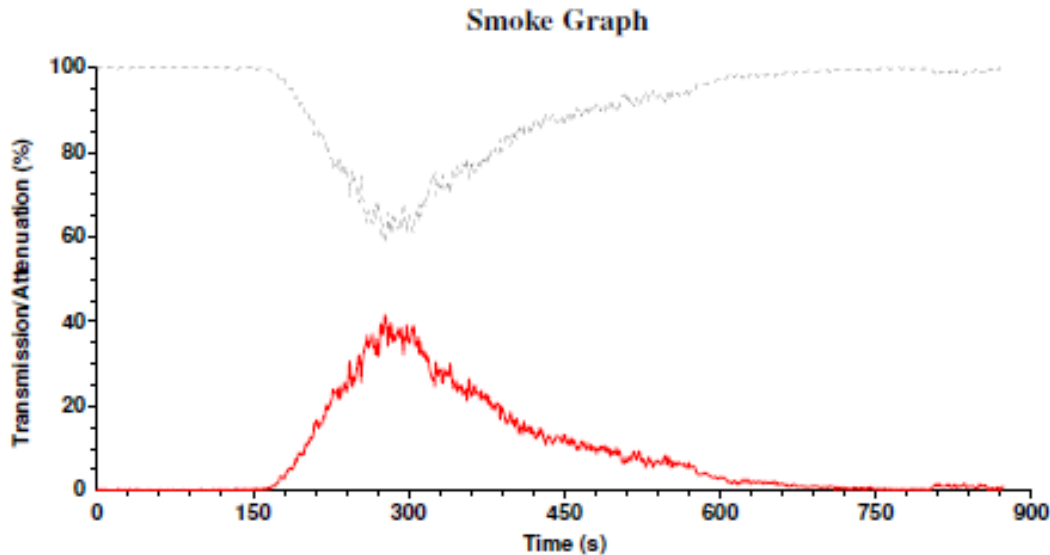
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Sample 1 Width

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page 3



Test name : WIDTH1
File name : C:\FRPSOFT\DATA\20020006.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	170	12.2	2.066	510	-	3.4	-
110	237	11.1	2.637	560	-	2.8	-
160	311	10.2	3.175	610	-	2.3	-
210	452	9.2	4.144	660	-	2.0	-
260	-	8.1	-	710	-	1.7	-
310	-	7.1	-	760	-	1.4	-
360	-	6.1	-	810	-	1.2	-
410	-	5.1	-	860	-	1.1	-
460	-	4.2	-	910	-	0.9	-



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Sample 2 Length

Test Results

Time to ignition	: 2 minutes 36 seconds (156 s)
Time to flameout	: 12 minutes 41 seconds (761 s)
Extent of burning (mm)	: 250
Critical flux at extinguishment (kW/m ²)	: 8.32
HF-10 (kW/m ²)	: 8.32
HF-20 (kW/m ²)	: Not calculated (test duration < 20 minutes)
HF-30 (kW/m ²)	: 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 (%)	: 41.21
Time to peak light attenuation	: 4 minutes 42 seconds (282 s)
Total integrated smoke (%.min)	: 126.25



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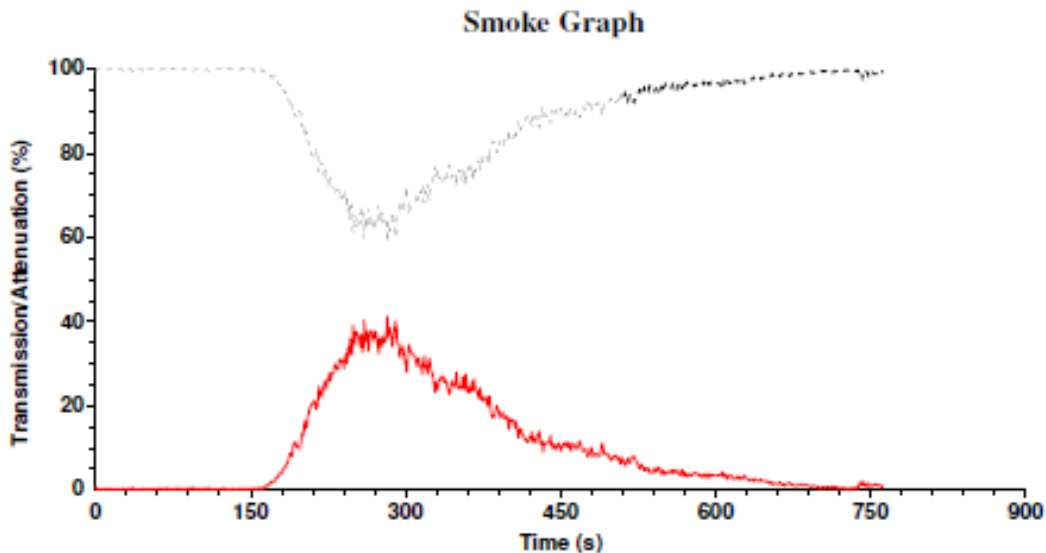
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Sample 2 Length

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Report produced with the Fire Testing Technology FRPSoft software

page 3



Test name : LENGTH2
File name : C:\FRPSOFT\DATA\20020007.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	174	12.2	2.115	510	-	3.4	-
110	241	11.1	2.681	560	-	2.8	-
160	271	10.2	2.766	610	-	2.3	-
210	332	9.2	3.044	660	-	2.0	-
260	-	8.1	-	710	-	1.7	-
310	-	7.1	-	760	-	1.4	-
360	-	6.1	-	810	-	1.2	-
410	-	5.1	-	860	-	1.1	-
460	-	4.2	-	910	-	0.9	-



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Sample 3 Length

Test Results

Time to ignition	: 2 minutes 41 seconds (161 s)
Time to flameout	: 44 minutes 55 seconds (2695 s)
Extent of burning (mm)	: 500
Critical flux at extinguishment (kW/m ²)	: 3.59
HF-10 (kW/m ²)	: 7.70
HF-20 (kW/m ²)	: 5.48
HF-30 (kW/m ²)	: 4.05
Flame spread at 10 minutes (mm)	: 280
Flame spread at 20 minutes (mm)	: 390
Flame spread at 30 minutes (mm)	: 470
Peak light attenuation (%)	: 39.71
Time to peak light attenuation	: 4 minutes 31 seconds (271 s)
Total integrated smoke (%.min)	: 177.35



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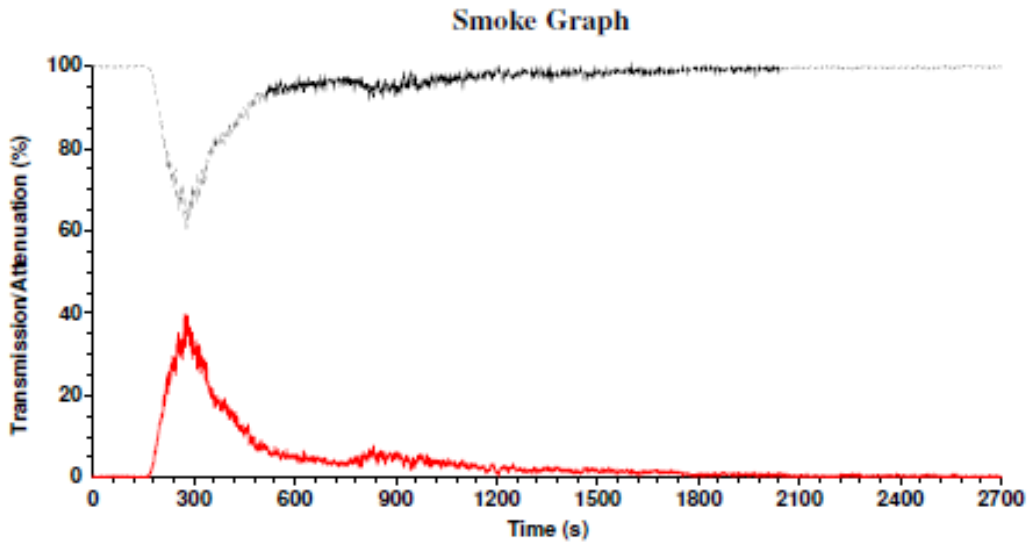
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Sample 3 Length

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page 3



Test name : LENGTH3
File name : C:\FRPSOFT\DATA\20020008.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	170	12.2	2.066	510	-	3.4	-
110	256	11.1	2.848	560	-	2.8	-
160	308	10.2	3.144	610	-	2.3	-
210	385	9.2	3.530	660	-	2.0	-
260	510	8.1	4.134	710	-	1.7	-
310	747	7.1	5.305	760	-	1.4	-
360	1014	6.1	6.145	810	-	1.2	-
410	1315	5.1	6.703	860	-	1.1	-
460	1705	4.2	7.158	910	-	0.9	-

END OF REPORT