CERTIFICATE

IDRIS

Material Fire Test Certificate

IGNL-6047-05-01C I01 R00

 DATE OF TEST
 21.04.2022

 ISSUE DATE
 06.05.2022

 EXPIRY DATE
 05.05.2027

AS ISO 9239.1-2003 Determination of the burning behaviour using a radiant heat source

SPONSOR

Quest Carpets 43-55 Mark Anthony Drive Dandenong South, VIC 3175

TEST BODY

Ignis Labs Pty Ltd ABN 36 620 256 617 3 Cooper Place Queanbeyan NSW 2620 Australia www.ignislabs.com.au (02) 6111 2909 Test body is the test location



Specimen Identification

Pacific SDN Action Bac

Specimen Description

The sponsor described the specimen as 32oz Solution Dyed Nylon twist pile carpet. It is composed of 100% solution dyed nylon. It is of twist pile construction with a pile height of 11 mm and a carpet width of 3.66 m. Its primary backing is composed of woven synthetic, and its secondary backing is composed of action bac. It is to be tested conventionally on Dunlop Government Red underlay.

The received specimens were a mottled pale brown coloured twist pile carpet attached to a beige weaved backing on a multicoloured underlay. The carpet had a measured nominal thickness of 11.15 mm, and the underlay had a measured nominal thickness of 6.83 mm. The test specimens had a total nominal thickness of 17.98 mm.

Ignis Labs was not responsible for the sampling stage. All specimens were sampled and fabricated by the test sponsor. The test results apply to the specimens as received.

Test Method

Four specimens were tested in accordance with Australia Standard AS 9239.1-2003 Reaction to fire tests for floorings, Part 1: Determination of the burning behaviour using a radiant heat source. Specimen 1 was tested along the production direction and specimens 2-4 were tested against the production direction. As requested by the test sponsor, the specimens were tested for 30 minutes only.

Observations

Comparing the critical heat flux values of specimens tested in two directions, the specimen against the production direction demonstrated a worse result and as such an additional two tests were completed in that direction. Two of the three specimens against the production direction exhibited equivalent performance, while specimen 4 had a significantly lower flame spread. None of the specimens reached flameout within the 30-minute test duration. Sustained flaming of specimens was observed starting from 170, 211, 219, and 246 seconds for specimens 1 to 4 respectively. Flashing was observed prior to ignition. Charring of the surface was observed prior to the ignition. Charring and melting were observed on the carpet surface.

Parameters	Specimen				
	Unit	With Product Against Product Direction			n
Specimen number		1	2	3	4
Test duration	min	30.00	30.00	30.00	30.00
Time to reach 50mm	s	202	247	254	302
Flameout time	min	-	-	-	-
Flame spread at 10 min	mm	410	400	410	190
Flame spread at 20 min	mm	490	490	520	260
Flame spread at 30 min	mm	560	570	610	260
Flame spread at flameout	mm	560	570	610	310
Maximum light attenuation	%	70.78	75.96	65.44	26.91
HF-10	kW/m²	5.12	5.34	5.12	9.65
HF-20	kW/m²	3.95	3.95	3.55	8.29
HF-30	kW/m²	3.14	3.03	2.62	8.29
CHF	kW/m²	-	-	-	-
Critical heat flux	kW/m²	3.2	3.0	2.6	8.2
Smoke obscuration integration	%×min	401.42	277.43	279.59	50.54

Result		
Parameters	Unit	Results
Average flame spread	mm	496.67
Average critical heat flux	kW/m²	4.6
Average smoke obscuration integration	%×min	202.52

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Disclaimer These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use. The results of these fire tests may be used to directly assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all fire conditions.

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