



CERTIFICATE

Material Fire Test Certificate

IGNL-9482-05-01C I01 R00

DATE RECEIVED 26/09/2025
DATE OF TEST 28/11/2025
ISSUE DATE 01/12/2025
EXPIRY DATE 16/12/2030

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

SPONSOR

Belgotex Floorcoverings (Australia)
Building 3, Warehouse 8
161 Manchester Road
Auburn, NSW, 2144

TEST BODY

Ignis Labs Pty Ltd
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Test body is the test location



NATA Accredited Laboratory
Number: 20534 Site number: 24604
Accredited for compliance with
ISO/IEC 17025 - Testing

Specimen Name

Sumptuous

Specimen Description

The sponsor has described the specimen as a tufted cut pile carpet. It has a nominal composition of 100% premium soft solution dyed nylon. It has a nominal mass per unit area of 1560 g/m². The client requested the specimen to be laid over Dunlop Government Red Underlay. The received specimen were grey tufted cut pile carpets with a felt backing and a brown pile. It had an average length of 1050 mm and a width of 230 mm. It had a measured pile thickness of 7.70 mm and a measured base thickness of 2.23 mm. The underlay had a measured thickness of 7.44 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 (4) specimens were tested in accordance with Australia Standard 9239.1-2003 Reaction to fire tests for floorings, Part 1: Determination of the burning behaviour using a radiant heat source carried out in accordance with EN ISO 9239-1. The specimens were 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. Specimens 1 to 3 were tested with production direction while specimen 4 was tested against the production direction. All specimens were tested until extinguishment.

Observations

Comparing the critical heat flux values of specimens tested in two directions, the specimen with the production direction demonstrated a worse result and as such an additional two tests were completed in that direction. Smoke was observed within 5 to 15 seconds, with melting at the zero end by 30 seconds. Ignition occurred at 145 to 155 seconds into the test. By 3 minutes, flaming had penetrated the carpet and underlay. Flaming droplets fell from specimen 3 at 9.5 minutes and were extinguished at 10.5 minutes. After the test, the first half of all specimens was charred and discoloured.

Calculations

Parameters	Unit	Specimen			
		With Product Direction		Against Product Direction	
Specimen number		1	2	3	4
Test duration	min	50.73	44.28	58.02	52.73
Time to reach 50mm	s	246	262	265	270
Flameout time	min	50.73	44.28	58.02	52.73
Flame spread at 10 min	mm	380	400	370	340
Flame spread at 20 min	mm	480	580	510	490
Flame spread at 30 min	mm	520	620	560	520
Flame spread at flameout	mm	580	620	610	570
Maximum light attenuation	%	48.77	54.98	62.14	52.26
HF-10	kW/m ²	5.70	5.33	5.88	6.43
HF-20	kW/m ²	4.10	2.79	3.65	3.95
HF-30	kW/m ²	3.53	2.35	3.04	3.53
CHF	kW/m ²	2.79	2.35	2.42	2.91
Critical heat flux	kW/m ²	2.8	2.4	2.4	3.0
Smoke obscuration integration	%×min	241.43	367.18	374.36	294.32

Result

Parameters	Unit	Results
Average flame spread	mm	603.33
Average critical heat flux	kW/m ²	2.6
Average smoke obscuration integration	%×min	327.66

Test Supervisor
Darren Laker

Technical Lead
Jessica Ying

Version: IGNL-QF-046-Issue 02 Revision 01

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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