CERTIFICATE

ICRIS

Material Fire Test Certificate

IGNL-9238-05-01C I01 R00

DATE OF TEST	08.04.2025
ISSUE DATE	19.05.2025
EXPIRY DATE	18.05.2030

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

SPONSOR

Belgotex NZ 25 Leslie Hills Drive Riccarton Christchurch 8011 New Zealand

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





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

Specimen Name

Key West Specimen Description

specifien Descriptio

The sponsor described the specimen as tufted cut pile carpet. It is composed of 100% solution dyed nylon and has a nominal mass per unit area of 1080 g/m².

The specimen was received as a roll of carpet with a dark grey pile and a woven light grey base. The carpet had an average measured pile thickness of 8.95 mm, an average measured base thickness of 1.95 mm, and an average measured total thickness of 10.87 mm. The specimen was conventionally tested on Dunlop Government Red underlay. The underlay was multicoloured with a red laminate and had an average measured thickness of 7.62 mm. The specimens had an average measured total thickness of 18.63 mm.

Specimens were fabricated to the test dimensions by Ignis Labs. Ignis Labs was not responsible for the sampling stage. The specimen was sampled by the test sponsor. The test result applies to the specimen 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. Specimens 1 to 3 were tested with production direction while specimen 4 was tested against the production direction. After testing one specimen with the product direction and one specimen against the product direction, the specimen with the product direction demonstrated a worse result and as such two more specimens were tested in that direction.

Observations

The tested specimens exhibited equivalent results. Melting was observed prior to ignition, and the specimens ignited at 128, 125, 124, and 126 seconds into the test for specimens 1 to 4 respectively. Melting was observed ahead of the main flame front and flameout occurred at 1695, 1532, 1675, and 1165 seconds into the test. After the test, the specimens were partially melted and charred black were flaming had occurred. Calculations

		Specimen				
Parameters	Unit	With Product Direction			Against Product	
					Direction	
Specimen number		1	2	3	4	
Test duration	min	30.00	30.00	30.00	30.00	
Time to reach 50mm	S	192	199	215	226	
Flameout time	min	28.25	25.53	27.92	19.42	
Flame spread at 10 min	mm	330	280	310	290	
Flame spread at 20 min	mm	400	365	385	370	
Flame spread at 30 min	mm	430	370	390	370	
Flame spread at flameout	mm	430	370	390	370	
Maximum light attenuation	%	49.46	40.22	44.82	46.25	
HF-10	kW/m²	6.80	7.84	7.23	7.64	
HF-20	kW/m²	5.28	6.04	5.61	5.93	
HF-30	kW/m²	4.73	5.93	5.50	5.93	
CHF	kW/m²	4.73	5.93	5.50	5.93	
Critical heat flux	kW/m²	4.8	6.0	5.4	6.0	
Smoke obscuration integration	%×min	199.66	142.64	159.74	167.73	
Result						
Parameters		Unit			Results	
Average flame spread		mm			396.67	
Average critical heat flux		kW/m²			5.4	

%×min

a Test Supervisor

Darren Laker

Average smoke obscuration integration

Technical Lead

Jessica Ying

167.35

/ersion: 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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