

CERTIFICATE

Material Fire Test Certificate

IGNL-7234-05-02C I01 R00

DATE OF TEST 03/11/2023
06/11/2023
ISSUE DATE 14/11/2023
EXPIRY DATE 13/11/2028

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

SPONSOR
Belgotex

17/2-6 Focal Avenue
Coolool Beach, QLD 4573

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 Name

Boulevard MR

Specimen Description

The sponsor described the tested specimen as 100% SDN cut pile carpet with a nominal composition of solution dyed nylon. It had a nominal thickness of 16 mm. Its end use was as residential flooring.

The received specimens were 100% SDN cut pile. It was grey in colour. The specimens were tested on Dunlop Government Red underlay with conventional installation. The carpet had a measured nominal thickness of 15.44 mm, and the nominal thickness of the underlay is 6.81 mm. The specimens had a combined nominal thickness of 22.25 mm. Specimens were fabricated to size by Ignis Labs. Ignis Labs was not responsible for the sampling stage. All specimens were sampled 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 AS ISO 9239.1-2003 Reaction to fire tests for floorings, Part 1: Determination of the burning behaviour using a radiant heat source. Specimens 1 was tested with production direction while specimens 2 to 4 were tested against the production direction. The specimens were tested until extinguishment.

Observations

All four specimens exhibited similar behaviour. Sustained flaming was observed from 163, 158, 154, and 151 seconds for specimens 1 to 4 respectively and extinguished after between 28 and 66 minutes into the test. The specimens exhibited melting ahead of the main flame front. Specimens bubbled under the flames.

Calculations

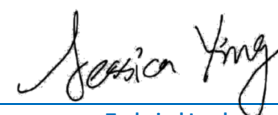
Parameters	Unit	Specimen			
		With Product Direction	Against Product Direction		
		1	2	3	4
Specimen number					
Test duration	min	60.98	42.47	65.87	30.07
Time to reach 50 mm	s	302	308	281	289
Flameout time	min	60.98	42.47	65.87	30.07
Flame spread at 10 min	mm	180	180	180	200
Flame spread at 20 min	mm	260	300	300	290
Flame spread at 30 min	mm	290	310	300	290
Flame spread at flameout	mm	310	310	310	290
Maximum light attenuation	%	31.43	30.74	23.73	27.84
HF-10	kW/m ²	9.79	9.79	9.79	9.43
HF-20	kW/m ²	8.23	7.42	7.42	7.62
HF-30	kW/m ²	7.62	7.21	7.42	7.62
CHF	kW/m ²	7.21	7.21	7.21	7.62
Critical heat flux	kW/m ²	7.2	7.2	7.2	7.6
Smoke obscuration integration	%×min	172.64	157.25	146.52	169.18

Result

Parameters	Unit	Results
Average flame spread	mm	305
Average critical heat flux	kW/m ²	7.4
Average smoke obscuration integration	%×min	161.40



Test Supervisor
Darren Laker



Technical Lead
Jessica Ying

Version: IGNL-QF-031-Issue 03 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.

The information contained in this document is provided for the sole use of the recipient and no reliance should be placed on the information by any other person. In the event that the information is disclosed or furnished to any other person, the Ignis Labs Pty Ltd accepts no liability for any loss or damage incurred by that person whatsoever as a result of using the information.

Copyright © All rights reserved. No part of the content of this document may be reproduced, published, transmitted or adapted in any form or by any means without the written permission of the Ignis Labs Pty Ltd.