

# **CERTIFICATE**

# Material Fire Test Certificate

#### IGNL-8067-05C I01 R00

DATE RECEIVED 14/02/2024 12/03/2024 DATE OF TEST 13/03/2024 **ISSUE DATE** 22/03/2024 **EXPIRY DATE** 21/03/2029

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







TL-1162

#### Specimen Name

Pacific Action Bac

### **Specimen Description**

The sponsor described the specimen as a Pacific Action Bac twist pile carpet. The pile is composed of solution-dyed nylon. It has a nominal thickness of 11 mm and a width of 3.66 m. The nominal weight of the pile per unit mass is 1088 g/m<sup>2</sup>. It is made up of a woven synthetic primary backing and an Action Bac secondary backing. It is intended for residential and commercial use. The carpet is to be conventionally tested on Airstep Prestige Gold.

The received specimens were initially in the form of carpet and underlay rolls, which were subsequently fabricated into test samples by Ignis Labs. The carpet was light grey in colour and featured a woven base. It had a base thickness of 1.23 mm, a pile thickness of 8.05 mm, and a total thickness of 10.19 mm. The underlay was multicoloured with a vellow laminate and was labelled as 'Airstep Prestige'. Its thickness was precisely measured at 9.98 mm.

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 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 specimen 4 to 6 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. All specimens against the product direction exhibited equivalent performance. Smoke was observed starting from 31, 31, 27 seconds for specimen 4 to 6 respectively. None of the specimens reached flameout within the 30-minute test duration. Sustained flaming of specimens was observed starting from 162, 157, 145 seconds for specimen 4 to 6 respectively. During the combustion, burning droplets were observed.

## Calculations

Down-markens	Specimen				
Parameters	Unit	Against Product Direction			
Specimen number			4	5	6
Test duration	min	-	30	30	30
Time to reach 50mm	S	-	213	189	216
Flameout time	min	-	-	-	-
Flame spread at 10 min	mm	-	463	458	543
Flame spread at 20 min	mm	-	598	560	645
Flame spread at 30 min	mm	-	665	637	710
Flame spread at flameout	mm	-	665	637	710
Maximum light attenuation	%	-	37.83	77.21	65.4
HF-10	kW/m²	-	4.28	4.26	3.17
HF-20	kW/m²	-	2.66	3.01	2.32
HF-30	kW/m²	-	2.18	2.37	1.89
CHF	kW/m²	-	-	-	-
Critical heat flux	kW/m²	-	2.2	2.4	1.8
Smoke obscuration integration	%×min	-	148.63	189.08	211.16

## Result

Parameters	Unit	Results
Average flame spread	mm	670.67
Average critical heat flux	kW/m²	2.2
Average smoke obscuration integration	%×min	182.96

**Test Supervisor** 

Darren Laker

**Technical Lead** Jessica Ying

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 ssment 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.