

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

**Client :** Cavalier Bremworth  
7 Grayson Avenue  
Papatoetoe  
Auckland New Zealand

**Test Number :** 19-002456  
**Issue Date :** 29/05/2019  
**Print Date :** 29/05/2019

**Sample Description** Clients Ref : "Untouched 3040"  
Loop pile carpet  
Colour : Beige

### ASTM C518-2017

### Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus

Date of Testing		29/05/2019
Test Date		28/05/2019
Test Apparatus		Lasercomp Fox 600
Sample Orientation		Horizontal
Heat Flow Direction		Up
Mean Test Temperature		23 °C
Temperature Differential		20 °C
Average Thermal Gradient		318.9 K/m
Estimated uncertainty in results		3.9 %
Specimen	1	2
Specimen Thickness (as received)	13	13 mm
Specimen Thickness (as tested)	63	63 mm
Specimen Density (as tested)	58	58 kg/m <sup>3</sup>
Test Duration	04:06	03:17 hrs:mins

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- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356

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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc. (Hons)  
MANAGING DIRECTOR

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Measured Heat Flux	21.9	21.6	W/m <sup>2</sup>
Measured Thermal Conductance	0.1096	0.1081	W/m <sup>2</sup> K
Measured Thermal Conductivity	0.0687	0.0678	W/m.K
Thermal Resistance	0.91	0.93	m <sup>2</sup> K/W
Thermal Resistance (1 layer)	0.18	0.19	m <sup>2</sup> K/W

The calibration of the Heat Flow Apparatus was checked immediately prior to the commencement of the test.

The specimens were tested as 5 layers placed face to back and then turned at 90° for the second result.

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MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

0204/11/06