

# 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 :** 19-002063  
**Issue Date :** 24/04/2019  
**Print Date :** 24/04/2019

**Sample Description** Clients Ref : "Athleisure 574"  
Loop pile carpet  
Colour : Grey

### ASTM C518-2017

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

Date of Testing		23/04/2019
Test Date		23/04/2019
Test Apparatus		Lasercomp Fox 600
Sample Orientation		Horizontal
Heat Flow Direction		Up
Mean Test Temperature		23 °C
Temperature Differential		20 °C
Average Thermal Gradient		446.0 K/m
Estimated uncertainty in results		3.9 %
Specimen	1	2
Specimen Thickness (as received)	9.2	9.2 mm
Specimen Thickness (as tested)	45	45 mm
Specimen Density (as tested)	325	327 kg/m <sup>3</sup>
Test Duration	03:29	03:06 hrs:mins

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- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

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

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*[Signature]*

APPROVED SIGNATORY

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

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Measured Heat Flux	30.1	30.0	W/m <sup>2</sup>
Measured Thermal Conductance	0.1502	0.1498	W/m <sup>2</sup> K
Measured Thermal Conductivity	0.0676	0.0669	W/m.K
Thermal Resistance	0.67	0.67	m <sup>2</sup> K/W
Thermal Resistance (1 layer)	0.13	0.13	m <sup>2</sup> K/W

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

Specimens were tested as 5 layers positioned face to back and turned at 90 degrees for the second result.

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0204/11/06

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