

# 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 :** Koolfoam Pty Ltd  
54 Randall St  
Slacks Creek QLD 4127

**Test Number :** 19-006687  
**Issue Date :** 27/11/2019  
**Print Date :** 2/12/2019

**Sample Description** Clients Ref : "Koolfoam ULTRA (EPS with Graphite S Grade)"  
Expanded Polystyrene  
Colour : Charcoal  
Nominal Composition : Polystyrene  
Nominal Mass per Unit Area/Density : 16kg/m3  
Nominal Thickness : 50mm

### ASTM C518-2017

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

Date of Testing	26/11/2019
Test Date	26/11/2019
Test Apparatus	Lasercomp Fox 600
Sample Orientation	Horizontal
Heat Flow Direction	Up
Mean Test Temperature	23
Temperature Differential	20

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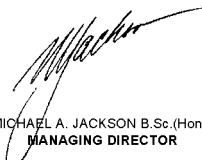


Accredited for compliance with ISO/IEC 17025

- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

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

Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

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



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Estimated uncertainty in results 3.9  
Average Thermal Gradient 404.0

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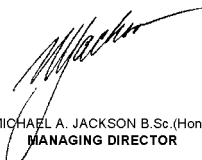


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Specimen	1	2	3	4	5	6	7	8	9	10	
Specimen Thickness (as received)	49	50	50	50	50	50	50	50	49	50	mm
Specimen Thickness (as tested)	49	50	50	50	50	50	50	50	49	50	mm
Specimen Density (as received)	17	17	17	17	17	17	17	17	17	17	kg/m <sup>3</sup>
Test Duration	01:12	01:12	01:12	01:18	01:12	01:18	01:18	01:17	01:12	01:12	hrs:mins
Measured Heat Flux	12.7	12.6	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	W/m <sup>2</sup>
Measured Thermal Conductance	0.0637	0.0632	0.0633	0.0633	0.0633	0.0635	0.0636	0.0634	0.0633	0.0633	W/m <sup>2</sup> K
Measured Thermal Conductivity	0.0314	0.0314	0.0314	0.0315	0.0314	0.0315	0.0314	0.0313	0.0314	0.0313	W/m.K
Measured Resistance	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	m <sup>2</sup> K/W

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

AS/NZS 4859.1-2018 Clause 2.3.3.5  
R 50/90: 1.55 m2/Kw  
Thermal Conductivity 50/90 0.031 W/m.k

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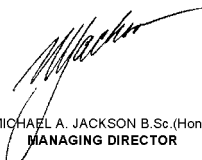


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