

**SEKISUI FOAM AUSTRALIA**  
1 – 5 Parraweena Road, Taren Point  
NSW 2229 AUSTRALIA  
T: +61 2 9525 9880 E: info@sekisuifoam.com.au

# TECHNICAL INFORMATION

## TECHNICAL DATA SHEET

### Thermobreak<sup>®</sup> 9705

<b>Material:</b>	Physically (irradiation) crosslinked closed cell polyolefin foam with factory applied reinforced aluminium foil
<b>Density:</b>	25 kg/m <sup>3</sup> (foam core only)
<b>Thermal Conductivity:</b> (ASTM C518)	0.032 W/m.°K (@ 23°C mean temperature)
<b>Water Vapour Permeability:</b> (ASTM E96)	2.3 x 10 <sup>-15</sup> kg/Pa.s.m (0.0084 mg.m/N.h)
<b>Water Vapour Permeance:</b>	1.95 x 10 <sup>-4</sup> g/MN.s
<b>Permeability Resistance Factor:</b>	μ > 80,000
<b>Water Absorption by Volume:</b> (ASTM C1763, Procedure B, 24h)	< 0.2% v/v
<b>Resistance to Fungi:</b> (ASTM G21)	Zero Growth
<b>Leachable Chlorides:</b> (ASTM C871)	< 12 ppm (< 0.0012% w/w)
<b>Ozone Resistance:</b>	Excellent
<b>UV Resistance:</b>	Excellent
<b>VOC Emission Rate:</b> (ASTM D5116)	Low VOC emitting ("Green Star")
<b>Operating Temperature Range:</b>	-80 °C ~ +100 °C

### FIRE AND SMOKE PERFORMANCE

ISO 9705	Full Scale Burning Test 25mm thickness	Group 2 Classification (BCA) Group 2S Classification (BCNZ)
AS 1530:3	<b>Ignitability Index:</b> <b>Spread of Flame Index:</b> <b>Heat Evolved Index:</b> <b>Smoke Developed Index:</b>	<b>0</b> <b>0</b> <b>0</b> <b>0 – 1</b>
BS 476 Parts 6 & 7:		<b>CLASS 0</b>

**SEKISUI FOAM AUSTRALIA**

1 – 5 Parraweena Road, Taren Point  
NSW 2229 AUSTRALIA  
T: +61 2 9525 9880 E: info@sekisuifoam.com.au

# TECHNICAL INFORMATION

## TOLERANCES

The following tables list tolerances for thickness and density of standard Thermobreak<sup>®</sup> 9705 products:

<b>Thickness</b>	
<b>Nominal Thickness</b>	<b>Tolerance</b>
5mm	-0.5mm / +1.0mm
6mm	-0.5mm / +1.5mm
8mm	-1.0mm / +1.5mm
10mm	-1.0mm / +1.5mm
12mm	-1.0mm / +1.5mm
15mm	-1.0mm / +2.0mm
20mm	-1.0mm / +2.0mm
25mm	-1.0mm / +2.5mm
30mm	-1.0mm / +2.5mm
35mm	-1.0mm / +2.5mm
40mm	-1.5mm / +3.0mm
45mm	-1.5mm / +3.0mm
50mm	-2.0mm / +3.5mm
Other thicknesses and/or tolerances subject to confirmation.	

<b>Density* (foam only)</b>	
<b>Nominal Density</b>	<b>Tolerance</b>
25 kg/m <sup>3</sup>	± 10%
*Applies to the foam core. The density of Thermobreak with reinforced aluminium foil will be higher.	

<b>Width (Sheet)</b>	
<b>Nominal Width</b>	<b>Tolerance</b>
1200mm	-0 / +20mm
Other widths and/or tolerances subject to confirmation.	

## COUNTRY OF MANUFACTURE

Thermobreak<sup>®</sup> 9705 insulation is manufactured in Australia.



This information on Sekisui Foam International products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

Recommendations as to methods of post fabrication, application and use of Sekisui Foam International products are based on our experience and knowledge of the characteristics of our products and are given in good faith. As producer of the material we have no control over the application of Sekisui Foam International products and no legal responsibility is accepted for such recommendations. In particular, no responsibility is accepted by us for any system in which Sekisui Foam International products are utilised or for any application.

**Softlon and Thermobreak** – Registered trademarks of Sekisui Chemical Co. Ltd or its subsidiaries.

© Sekisui Pilon Pty Ltd. Date of Publication: May 2018.