

# TECHNICAL INFORMATION

## TECHNICAL DATA SHEET

### Thermobreak<sup>®</sup> RT

<b>Material:</b>	Physically (irradiation) crosslinked closed cell polyolefin foam with factory applied reinforced aluminium foil and pressure sensitive adhesive backing
<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

<b>ISO 5658 Part 2</b>	<b>Flame Spread</b>	<b>COMPLIES (EN 45545-2 R1, HL3 RATING)</b>
<b>ISO 5659 Part 2</b>	<b>Smoke Toxicity Smoke Density</b>	<b>COMPLIES (IMO MSC 61(67) Part 2) COMPLIES (EN 45545-2 R1, HL3 RATING)</b> Satisfies max allowable concentrations for the following combustion gases: CO, HCl, HBr, HF, HCN, NO <sub>x</sub> , SO <sub>2</sub>
<b>ISO 5660 Part 1</b>	<b>Heat Release Rate</b>	<b>COMPLIES (EN 45545-2 R1, HL3 RATING)</b>
<b>BS476 Parts 6 &amp; 7</b>		<b>CLASS 0</b>
<b>ASTM E162</b>	<b>Surface Flammability</b>	<b>COMPLIES (NFPA 130)</b>
<b>ASTM E662</b>	<b>Smoke Toxicity</b>	<b>COMPLIES (NFPA 130)</b>

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<b>ASTM E1354</b>	<b>Heat Release Rate</b>	<b>COMPLIES (PRIIA)</b>
<b>BS 6853 Annex B</b>	<b>Smoke Toxicity</b>	<b>COMPLIES (R &lt; 1.0)</b>
<b>BSS 7239 (Boeing)</b>	<b>Smoke Toxicity</b>	<b>COMPLIES</b>

## TOLERANCES

The following tables list tolerances for thickness, density and width of standard Thermobreak<sup>®</sup> RT 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
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> RT 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.

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