

## 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>	1.5 pcf (foam core only)
<b>Thermal Conductivity:</b> (ASTM C518)	0.22 BTU.in/h.ft <sup>2</sup> .°F (@ 73°F mean temperature)
<b>Water Vapour Permeability:</b> (ASTM E96)	0.002 perm-inch
<b>Water Vapour Permeance:</b>	0.0034 perms (1/2" thickness)
<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>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>	-112 °F ~ +212 °F (no adhesive)

### **FIRE AND SMOKE PERFORMANCE**

<b>ISO 5658 Part 2</b>	<b>Flame Spread</b>	<b>COMPLIES (EN 45545-2 R1, HL3 RATING, 1/5" – 1")</b> <b>COMPLIES (UN ECE R118)</b>
<b>ISO 5659 Part 2</b>	<b>Smoke Toxicity</b> <b>Smoke Density</b>	<b>COMPLIES (EN 45545-2 R1, HL3 RATING, 1/5" – 1")</b> <b>COMPLIES (EN 45545-2 R1, HL3 RATING, 1/5" – 1")</b>
<b>ISO 5660 Part 1</b>	<b>Heat Release Rate</b>	<b>COMPLIES (EN 45545-2 R1, HL3 RATING, 1/5" – 1")</b>
<b>ASTM E162</b>	<b>Surface Flammability</b>	<b>COMPLIES (PRIIA/NFPA 130, 1/5" – 1")</b>
<b>ASTM E662</b>	<b>Smoke Density</b>	<b>COMPLIES (PRIIA/NFPA 130, 1/5" – 1")</b>
<b>ASTM E1354</b>	<b>Heat Release Rate</b>	<b>COMPLIES (PRIIA, 1/5" – 1")</b>
<b>BSS 7239 (Boeing)</b>	<b>Smoke Toxicity</b>	<b>COMPLIES (PRIIA, 1/5" – 1")</b>
<b>BS 476 Parts 6 &amp; 7</b>	<b>Class 0</b>	<b>COMPLIES (BS 6853, CLASS Ib RATING)</b>
<b>BS 6853 Annex B2</b>	<b>Smoke Toxicity</b>	<b>COMPLIES (BS 6853, CLASS Ib RATING)</b>
<b>BS 6853 Annex D8.4</b>	<b>Smoke Density</b>	<b>COMPLIES (BS 6853, CLASS Ib RATING)</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 (based on SI nominal value and converted from SI units)</b>
1/5" (5mm)	0.18" – 0.24"
1/4" (6mm)	0.22" – 0.30"
1/3" (8mm)	0.28" – 0.37"
3/8" (10mm)	0.35" – 0.45"
1/2" (12mm)	0.43" – 0.53"
5/8" (15mm)	0.55" – 0.67"
3/4" (20mm)	0.75" – 0.87"
1" (25mm)	0.95" – 1.10"
Other thicknesses and tolerances subject to confirmation.	

<b>Density* (foam only)</b>	
<b>Nominal Density</b>	<b>Tolerance (based on SI nominal value and converted from SI units)</b>
1.5 pcf (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 (based on SI nominal value and converted from SI units)</b>
48" (1200mm)	47.2" – 48.0"
Other widths and/or tolerances subject to confirmation.	

## ENQUIRIES

If you require any further information, please consult your local distributor or contact us at

### SEKISUI VOLTEK

17 Allen Avenue  
Coldwater, MI 49036  
UNITED STATES OF AMERICA

Tel : +1 800 544 2254

Fax : +1 517 279 8562

Email: [prodinfo@sekisuivoltek.com](mailto:prodinfo@sekisuivoltek.com)

Web: [www.sekisuivoltek.com](http://www.sekisuivoltek.com)



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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