



## **TECHNICAL DATA SHEET**

# Thermobreak® RT

Material: Physically (irradiation) crosslinked closed cell polyolefin

foam with factory applied reinforced aluminium foil and

pressure sensitive adhesive backing

**Density:** 25 kg/m³ (foam core only)

Thermal Conductivity: 0.032 W/m.°K (@ 23°C mean temperature)

(ASTM C518)

Water Vapour Permeability: 2.3 x 10<sup>-15</sup> kg/Pa.s.m

(ASTM E96) (0.0084 mg.m/N.h)

Water Vapour Permeance:  $1.95 \times 10^{-4} \, \text{g/MN.s}$ 

Permeability Resistance Factor:  $\mu > 80,000$ 

Water absorption by volume:  $\langle 0.1\% \text{ v/v} \rangle$ 

(JIS K6767)  $(0.00038 \text{ g/cm}^2)$ 

Resistance to fungi: Zero Growth

(ASTM G21)

Ozone Resistance: Excellent

UV Resistance: Excellent

Operating Temperature Range:  $-80 \, ^{\circ}\text{C} \sim +100 \, ^{\circ}\text{C}$ 

FIRE AND SMOKE PERFORMANCE

ISO 5658 Part 2 Flame Spread COMPLIES (EN 45545-2 R1, HL3 RATING, 5 – 25mm)

ISO 5659 Part 2 Smoke Toxicity COMPLIES (EN 45545-2 R1, HL3 RATING, 5 – 25mm)

Smoke Density COMPLIES (EN 45545-2 R1, HL3 RATING, 5 – 25mm)

ISO 5660 Part 1 Heat Release Rate COMPLIES (EN 45545-2 R1, HL3 RATING, 5 – 25mm)

ASTM E162 Surface Flammability COMPLIES (PRIIA/NFPA 130)

ASTM E662 Smoke Density COMPLIES (PRIIA/NFPA 130)

ASTM E1354 Heat Release Rate COMPLIES (PRIIA)

BSS 7239 (Boeing) Smoke Toxicity COMPLIES (PRIIA)

BS 476 Parts 6 & 7 Class 0 COMPLIES (BS 6853, CLASS Ib RATING)

BS 6853 Annex B2 Smoke Toxicity COMPLIES (BS 6853, CLASS Ib RATING)

BS 6853 Annex D8.4 Smoke Density COMPLIES (BS 6853, CLASS Ib RATING)





#### **TOLERANCES**

The following tables list tolerances for thickness, density and width of standard Thermobreak® RT products:

<u>Thickness</u>	
Nominal Thickness	Tolerance
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
1 <i>5</i> mm	-1.0mm / +2.0mm
20mm	-1.0mm / +2.0mm
25mm	-1.0mm / +2.5mm
Other thicknesses and/or tolerances subject to confirmation.	

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

Width (Sheet)		
Nominal Width	Tolerance	
1 200mm	-0 / +20mm	
Other widths and/or tolerances subject to confirmation.		

#### **COUNTRY OF MANUFACTURE**

Thermobreak® RT insulation is manufactured in Australia and Thailand.

#### **ENQUIRIES**

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

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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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