

TECHNICAL DATA SHEET

Thermobreak[®] No-Clad Sheet and Tube

Material:	Physically (irradiation) crosslinked closed cell polyolefin foam with factory applied reinforced UV resistant aluminium foil
Density:	25 kg/m ³ (foam core only)
Thermal Conductivity: (ASTM C518)	0.032 W/m.°K (@ 23°C mean temperature)
Water Vapour Permeability: (ASTM E96)	< 4.1 x 10 ⁻¹⁵ kg/Pa.s.m (basis 25mm thickness) (0.015 mg.m/N.h)
Water Vapour Permeance:	< 1.7 x 10 ⁻⁴ g/MN.s
Permeability Resistance Factor:	μ > 40,000 (basis 25mm thickness)
Water Absorption by Volume: (ASTM C1763, Procedure B, 24h)	< 0.2% v/v
Resistance to Fungi: (ASTM G21)	Zero Growth
Leachable Chlorides: (ASTM C871)	< 12 ppm (< 0.0012% w/w)
Ozone Resistance:	Excellent
UV Resistance: (ISO 4892-3) (3000 hour QUV exposure)	No change in performance or appearance
Salt Resistance: (Internal Method) (2 week immersion in 5% salt solution)	No visible change in appearance
Tensile Strength: (ASTM D751)	> 1000 N MD > 900 N CD
Tear Strength: (ASTM D751)	> 60 N MD > 50 N CD
Puncture Resistance: (ASTM D4833)	> 400 N
Operating Temperature Range:	-80 °C ~ +100 °C (no adhesive)
Physical Property Requirements:	COMPLIES (ASTM C1427)

FIRE AND SMOKE PERFORMANCE

AS 1530 Part 3	Ignitability Index:	0
	Spread of Flame Index:	0
	Heat Evolved Index:	0
	Smoke Developed Index:	0 – 1

ASTM E84 (UL 723): **COMPLIES (NFPA 90A & B)**

Flame Spread Index: ≤25
 Smoke Developed Index: ≤50

BS 476 Parts 6 & 7:

CLASS 0

FM 4924 (Tube)

Up to 8" IPS (219 mm ID)
 Up to 50mm wall thickness

FM APPROVED

TOLERANCES

The following tables list tolerances for thickness, density and width of standard Thermobreak® No-Clad products:

Thickness	
Nominal Thickness	Tolerance
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 tolerances subject to confirmation.	

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

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

COUNTRY OF MANUFACTURE

Thermobreak® No-Clad Sheet and Tube 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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