

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:	1.5 pcf (foam core only)
Thermal Conductivity: (ASTM C518)	0.22 BTU.in/h.ft ² .°F (@ 73°F mean temperature)
Water Vapour Permeability: (ASTM E96)	< 0.003 perm-inch (basis 1" thickness)
Water Vapour Permeance:	< 0.003 perms (basis 1" thickness)
Permeability Resistance Factor:	μ > 40,000 (basis 1" 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)	> 225 lbf MD > 200 lbf CD
Tear Strength: (ASTM D751)	> 13 lbf MD > 11 lbf CD
Puncture Resistance: (ASTM D4833)	> 90 lbf
Operating Temperature Range:	-112 °F ~ +212 °F (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):	Flame Spread Index:	COMPLIES (NFPA 90A & B)
	Smoke Developed Index:	≤25
		≤50
BS 476 Parts 6 & 7:		CLASS 0
FM 4924 (Tube)	Up to 8" IPS	FM APPROVED
	Up to 2" wall thickness	

TOLERANCES

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

Thickness	
Nominal Thickness	Tolerance (based on SI nominal value and converted from SI units)
1" (25mm)	0.95" – 1.10"
1 1/2" (40mm)	1.50" – 1.70"
2" (50mm)	1.90" – 2.10"
Other thicknesses and tolerances subject to confirmation.	

Density* (foam only)	
Nominal Density	Tolerance (based on SI nominal value and converted from SI units)
1.5 pcf (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 (based on SI nominal value and converted from SI units)
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

Web: 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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