



TECHNICAL DATA SHEET

Thermobreak® No-Clad Sheet and Tube

Material:			lly (irradiation) crosslinked closed cell polyolefin with factory applied reinforced UV resistant ım foil	
Density:		25 kg/ı	m³ (foam core only)	
Thermal Conductivity: (ASTM C518)		0.032 \	N/m.°K (@ 23°C mean temperature)	
Water Vapour Permeability: (ASTM E96)			10 ⁻¹⁵ kg/Pa.s.m (basis 25mmm thickness) 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: (JIS K6767)		<0.1% v/v (0.00038 g/cm²)		
Resistance to fungi: (ASTM G21)		Zero Growth		
Ozone Resistance:		Excellent		
UV Resistance: (ISO 4892-3) (3000 hour QUV exposur	e)	No char	nge 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 \sim +100 °C (no adhesive)		
FIRE AND SMOKE PERFORMANCE				
AS 1530 Part 3	Ignitability Index: Spread of Flame Index: Heat Evolved Index: Smoke Developed Index:		0 0 0 0 - 1	
BS 476 Parts 6 & 7:			CLASS 0	
FM 4924	Up to 8" IPS (219 mm ID))	FM APPROVED (No-Clad Tube only)	

Up to 50mm wall thickness





TOLERANCES

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

Thickness			
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		
15mm	-1.0mm / +2.0mm		
20mm	-1.0mm / +2.0mm		
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		
1 200mm	-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

SEKISUI FOAM AUSTRALIA

1-5 Parraweena Road Taren Point NSW 2229 AUSTRALIA

Tel : +61 2 9525 9880 Fax : +61 2 9525 8004 Email: <u>info@sekisuifoam.com.au</u> Web: <u>www.sekisuifoam.com.au</u>

THAI SEKISUI FOAM

700/329 Moo 6, Amata Nakorn Industrial Estate Tumbol Donhua-loh, Amphur Muang Chonburi 20000 THAILAND

Tel: +66 3821 3219 ~ 26 Fax: +66 3821 3281 Email: <u>info@thaisekisui.co.th</u> Web: <u>www.thaisekisui.co.th</u>



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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