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TECHNICAL INFORMATION

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)

