

THERMOBREAKTM tube

Thermal Insulation

Hot & Cold Pipe Insulation



BS 476 Class "0"
AS 1530.3
ISO 5659-2
UL94
NFPA 90A & NFPA 90B



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- > Completely closed cell, crosslinked pipe insulation.
- > Heat bonded factory applied reinforced aluminium foil.
- > Pre-slit to handle with no special tools required.
- > Flexible, tough and durable.
- > Excellent compression resistance due to it's crosslinked foam structure.
- > Superior insulating properties compared to other flexible closed cell foams.
- > Very high vapour diffusion resistance Class 1 Vapour Retarder under ASHRAE 2009.
- > No cladding required.
- > Conforms to ISO 5659-2 "Smoke Density and Toxicity".
- > UL Recognised Component.
- > Anti-Microbial.
- > Can be used outdoors.
- > Certified Green Star Product (VOC)
- > Complies to NFPA 90A & NFPA 90B

Size Availability

Wall thickness (mm)	Min ID (mm)	Max ID (mm)	IPS Max (in)
15 mm	10.3	273.0	10"
20 mm	7.0	219.2	8"
25 mm	7.0	219.2	8"
30 mm / 35 mm	10.3	219.2	8"
40 mm / 50 mm	12.7	168.3	6"

Tube length: 2 metres

(Other lengths available on request)

Technical Data

Material:	Irradiation (physically) crosslinked polyolefin foam with factory applied reinforced foil.
Density:	25kg/m ³ (foam core only)
Thermal Conductivity: (ISO 8302-1991)	0.032 W/mK (@ 23°C mean temperature)
Water Vapour Permeability: (ASTM E96)	8.19 X 10 ⁻¹⁵ kg/Pa.sm (0.29 mg.m/Nh)
Water Vapour Permeance:	3.3 X 10 ⁻⁴ g/M.N.s
Permeability resistance factor:	μ>20,000
Water absorption by volume:	0.8% (after 28 days)
Resistance to Fungi: (ASTM G21)	Zero Growth
Ozone Resistance:	Excellent
UV Resistance:	Excellent
Operating temperature:	-80°C to 100°C

Fire and Smoke Behaviour

BS 476 Part 6 & 7	Class 0
AS 1530.3 (1999)	
Spread of Flame Index:	0
Heat Evolved Index:	0
Ignitability Index:	0
Smoke Develop Index:	0-1
UL94:	HF-1
ASTME 84:	Complies to: Flame speed index <25 Smoke Index <50
NFPA 90A & NFPA 90B	Complies with requirements
ISO 5659-2 (1994)	Smoke Density & Toxicity (with gas analysis)
Smoke Density:	Dm < 200
Smoke Toxicity:	Satisfies max allowable concentrations for the following combustion gases CO, HCL, HBr, HF, HCN, NOx, SO2
BS 6853	R = 0.66
(Smoke density toxicity)	(satisfies combustion gases to IDLH values)