

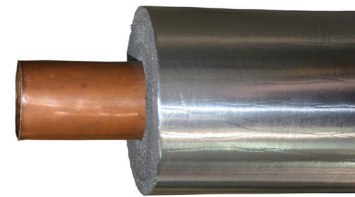
TECHNICAL DATA SHEET

FLEXICELL PIPE INSULATION

Product description and typical applications

Manufactured from cross-linked closed cell 25kg/m³ polyethylene foam with a durable foil facing suitable for operating temperatures up to 105°C. The 2m lengths have a slit along the entire length for easy installation and are easily cut with a sharp knife. The installation is completed by sealing joints with a reinforced foil tape.

FLEXICELL



	Value/Assessment	Tested according to
Temperature range		
Max.line temperature	+105°C	DIN EN 14706:2005
Min.line temperature	-80°C	(E)
Thermal conductivity (W/mk) at 23°C	0.032	ASTM C518:2010
Water vapour permeability (g/h.m2)	0	ASTM E96
Water vapour permeance (perms)	0	ASTM E96
Water absorbtion (% by volume)	0.3	BS EN 12087:1997
Fire performance		
Ignitability	0	AS/NZS 1530.3:1999
Spread of Flame	0	
Heat Evolved	0	
Smoke Developed	1	
UV Resistance	Excellent	ASTM G155
Resistance to fungi	Excellent	ASTM B117
Compression set	35.77% (25mm)	ASTM D3574
Resistance to fungi	Excellent	ASTM G21
Resistance to bacteria	Excellent	ISO 22196
Chemical Resistance	Very Good	ASTM C871
Emission (VOC level)	<4 ug/m2/hr	ASTM D5116
Environmental friendly		
Ozone resistance	Excellent	
Ozone Depletion Potential (ODP)	0	
Global Warming Potential (GWP)	<5	
CFC & HCFC, dust, fibres	Free	

Storage life

Can be stored in dry, clean rooms and normal relative humidity (50% to 70%) and ambient temperature (0°C - 35°C)

Smoke and toxicity		
1. Smoke and toxicity levels	Passed	IMO MSC 61(67)
2. Toxic smoke (R-value)	0.77	BS 6853:1999



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19 Pascal Road, Seaford, Victoria 3198

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Material R-Value

The below table contains standard Flexicell sizes and corresponding material R-values (m²k/w) in accordance with Australian Standards.

Insulation Thickness	Pipe Outer Dimensions (mm)																			
	12.7	15.9	19.1	25.4	26.9	31.8	33.7	38.1	42.4	50.8	60.3	63.5	76.1	88.9	101.6	114.3	127	152.4	168.3	
10mm			0.44			0.39		0.38		0.37										
15mm	0.81	0.76	0.72	0.68		0.64		0.62		0.59		0.57	0.55							
25mm	1.6	1.5	1.4	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.0	1.0	1.0	0.97	0.95	0.93	0.92	0.90	0.89	
38mm	2.7		2.4	2.2		2.1		2.0		1.8		1.6	1.6	1.6	1.5		1.5	1.4		
50mm								2.8		2.6		2.4	2.2		2.2	2.1	2.1	2.0		

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