

FLEXICELL[®] -XLPE



Cross Linked Closed Cell

Polyolefin Thermal Insulation Foam

with ISO 9705 Rating



AS/NZ 1530.3 TESTED

ISO 9705 TESTED

www.flexicell.co.nz



FlexiCell® Tubes

FlexiCell® XLPE is a closed cell chemically cross linked polyolefin foam used as thermal insulation to protect against heat loss and condensation.

FlexiCell® XLPE is reinforced with a heat bonded aluminium foil and is available with factory applied adhesive liner.

Easy to apply self adhesive rolls and sheets

Very low thermal conductivity



FlexiCell® Rolls



FlexiCell® Sheets



FlexiCell® XLPE prefabricated fittings are made in different sizes and shapes such as Elbows, T and Y sections.

Prefabricated fittings are available in a variety of wall thicknesses and inner diameters.



FlexiCell® Prefabricated Fittings

FIRE AND SMOKE PERFORMANCE

FlexiCell® XLPE meets AS/NZ 1530.3, FlexiCell® XLPE is tested and classified in accordance with ISO 9705, Full Scale Room Fire Test and can be used for compliance with the building code of New Zealand.



EXCELLENT THERMAL EFFICIENCY

FlexiCell® XLPE has a very low thermal conductivity, guaranteeing high performance in thermal insulation applications. Further to this, as FlexiCell® XLPE is closed cell, it also provides excellent levels of condensation control.



ENVIRONMENTALLY FRIENDLY

FlexiCell® XLPE is a CFC and HCFC free product. It does not contain, nor use in its production, any substances that contribute to Ozone Depletion Potential (ODP). FlexiCell® XLPE is fibre free and has a very low Volatile Organic Compound (VOC) emission level.



ZERO WATER VAPOUR PERMEABILITY

Condensation control is a key performance aspect of any insulation. FlexiCell® XLPE can be installed without any additional vapour barriers due to its closed cell construction, and watertight aluminium foil barrier.

FlexiCell® XLPE's excellent protection against condensation ensures the long term thermal efficiency of the insulation.



QUICK & EASY TO INSTALL

FlexiCell® XLPE is fast and easy to install. It is more flexible than other pipe insulation products, including glasswool, polystyrene and other extruded foams. This results in greatly reduced installation time, thereby affording significantly increased productivity.



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TECHNICAL DATA

ISO 9705 RATING

Properties	Value/ Assessment	Tested to:
Temperature Range Max. Line Temperature Min. Line Temperature <i>Our Customer Service Centre should be consulted for applications with temperatures below -80 °C</i>	+105 °C (+80 °C with PSA*) -80 °C (-30 °C with PSA*)	DIN EN 14706 ASTM C1427
Thermal Conductivity	6 mm - 15 mm - 0.034 W/m·K 20 mm - 60 mm - 0.035 W/m·K	ASTM C518
Density	25 ± 3 kg/m ³ (foam core only)	-
Color	Grey	-
Water Vapour Permeance [perms]	0	ASTM E96
Water Absorption	0.00008 g/cm ²	JIS K6767
Resistance to Corrosion	Excellent	ASTM B117
Compression Set	35 77% (25mm)	ASTM D3574
Reaction to Fire	Ignitability 0	AS/NZ 1530.3
	Spread of Flame 0	
	Heat Evolved 0	
	Smoke Developed 1	
	Average Smoke Prod.: 0.493 m ² /sec (Group 2s Rating)	ISO 9705
	Class O	BS 476 Part 6 & 7
Smoke Toxicity Levels	Passed	IMO MSC 307(88) Part 2 & 5
Resistance to Fungi	Excellent	ASTM G21
Resistance to Bacteria	Excellent	ISO 22196
Corrosion Risk	No corrosion risk for steel, stainless steel and copper pipes	-
Chemical Analysis	Chloride content - 0.0018 w/w% pH - 8.22	DIN EN 13468
Emission VOC (level)	<4 µg/m ² /hr	ASTM D5116
Environmental Friendly		Size Availability
Ozone Resistance	Excellent	Tubes 6 mm to 28 mm 32 mm to 125 mm 140 mm to 712 mm 25 mm to 115 mm 125 mm to 712 mm
Ozone Depletion Potential (ODP)	0	Insulation Thickness 10 mm to 40 mm 10 mm to 50 mm 20 mm to 50 mm 51 mm to 75 mm 51 mm to 75 mm
Global Warming Potential (GWP)	<5	
CFC & HCFC, Dust, Fibres	Free	
Storage life: Can be stored for 24 months (12 months with PSA*) from manufacturing date in a dry, clean, dust free room at normal humidity and ambient temperature. <i>Note: All outdoor applications of FlexiCell® XLPE need to be protected by FlexiCell® approved paint or weather resistant cladding.</i> *PSA - Pressure Sensitive Adhesive		Rolls A range of sizes are available 3 mm to 25 mm Sheets 1.20 x 2.4m 12 mm to 63 mm Pressure sensitive adhesive coating options available.

This information, presented by Hira Industries, is accurate to the best of our knowledge at the time of publication. All product data is based on average values and should be used as a general guide only. Due to the unique nature of specific applications, results may vary according to individual circumstances beyond the manufacturers control. As our products are subject to constant research and development, Hira Industries reserves the right to amend, modify and/or update the content of this publication at any time, without prior notice. Visit flexicell.com.au for more information, technical specifications, installation guidelines and product warranty terms and conditions.