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advanced insulation and engineered foams

THE MAKERS OF
Armaflex®

Armaflex Lineset Insulation

Description: Continuous coil Armaflex pipe insulation is a flexible elastomeric thermal insulation, black in color, supplied in continuous tubing. The closed cell structure of Armaflex makes it an efficient insulation and an efficient moisture retarder. The products provides a durable, tough and tear resistant exterior skin for use in demanding situation, such as new or remodeling home construction. Meets ASTM C 534 specification.

Uses: Line set and other industrial applications.

Installation: Continuous coil Armaflex uncoils easily so it can be cut to desired lengths for longer runs with less seams.

Physical Data

Average Physical Properties	Values	Test Method
Thermal Conductivity, BTU-in/hr ft ² °F (W/m K) 75 F (24 C)	0.249 (0.036)	ASTM C 177 or C 518
Water vapor permeability, perm-in (Kg/s-m-Pa)	0.08 (1.16 x 10 ⁻¹³)	ASTM E 96 Procedure A
Water Absorption, % by volume	0.2	ASTM C 209
Flame Spread Index and Smoke Developed Index through 1" wall thickness	25/50	ASTM E 84
Flammability, UL, File E55798 @ 7.4 mm thickness	V0 and 5VA	UL 94
Upper use limit, F	220 (105 C)	
Lower use limit, F (see note 1)	-40 (-40 C)	
Sizes, Nominal wall thickness Inside diameter	1/4", 3/8", 1/2", 3/4" and 1" (6, 10, 13, 19 and 25 mm) 1/4" ID to 1 1/8" ID (6 mm to 28 mm)	
Density, lb/cu.ft ³	3.0 to 6.0	ASTM D 1662 or D 1667

Note 1: At -20 F (-29 C), the insulation becomes hard and brittle. This hardening characteristic does not effect thermal efficiency or water vapor permeability.



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The R-values for Armacell Lineset Insulation

R Values, square foot basis

Pipe Insulation ID size, inches	Nom. 1/4" Wall	Nom. 3/8" Wall	Nom. 1/2" Wall	Nom. 3/4" Wall	Nom. 1" Wall
1/4	1.8	2.2	2.8	4.9	6.0
3/8	1.6	2.2	2.8	4.9	6.0
1/2	1.5	2.0	2.5	4.6	6.0
5/8	1.4	1.9	2.6	4.6	6.0
3/4	1.4	1.8	2.6	4.5	6.0
7/8	1.3	1.8	2.6	4.5	6.0
1-1/8	1.3	1.7	2.6	4.7	6.0

The R-Values are based on equivalent thicknesses.