



OE Armaflex[®]

Description: OE Armaflex is a black, flexible, UV retardant, Nitrile/PVC, elastomeric thermal insulation supplied in continuous and 6' length tubing. The closed cell structure of OE Armaflex makes it an efficient insulation and an effective moisture retarder. OE Armaflex meets the Grade 1 ASTM C 534 specification.

Uses: Insulation for line set, plumbing lines, refrigeration lines, and other piping systems.

Installation: For best results, OE Armaflex must be installed according to the *Armacell North American Application Manual*. For maximum longevity outdoors, OE Armaflex must be covered with at least 2 coats of WB Finish or covered with a suitable cladding.

Typical Properties

Property	Values	Test Method
Thermal Conductivity, BTU-in/hr ft ² °F (W/m K) 75 °F (24 °C)	0.25 (0.036)	ASTM C 177 or C 518
Water vapor permeability, perm-in (Kg/s-m-Pa)	0.05 (0.725 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 UL 723 NFPA 255
Flammability, UL, File E55798 @ 7.4 mm thickness	V0 and 5VA	UL 94
UV Weather Resistance*	Good	ASTM G90
Upper use limit, °F (°C)	220 (105)	
Lower use limit, °F (°C)**	-297 (-183)	
Sizes, Nominal wall thickness	1/4", 3/8", 1/2", 3/4" and 1"	
Inside diameter	1/4" ID to 1 1/8" ID	
Density, lb/cu.ft ³	3.0 to 6.0	ASTM D1662 or D1667
ASTM D1056 Classification	2C1	ASTM D1056

*ASTM G 90 is an ASTM standard practice for performing accelerated outdoor weathering of nonmetallic materials using concentrated natural sunlight. OE Armaflex shows minimal degradation after 90 MJ/m² of UV exposure according to ASTM G90. 90 MJ/m² is approximately equivalent to 3 months of exposure in Phoenix, Arizona. Actual results will vary based on actual UV exposure and other weather conditions. Armacell makes no guarantees about actual UV performance and recommends OE Armaflex be coated with WB Finish for maximum longevity when installed outdoors.

**At -20 °F (-29 °C), the insulation becomes hard and brittle. This hardening characteristic does not affect thermal efficiency or water vapor permeability.