

# UPPER-TEMPERATURE EPDM INSULATION

# ArmaFlex<sup>®</sup> UT

## Tube and Roll Insulation

EPDM-based, flexible, closed-cell elastomeric insulation for protection against condensation, mold, and energy loss in upper-temperature applications. ArmaFlex UT is low VOC, non-halogen, and PVC free.

- // Remains flexible up to 300°F – ideal for VRF applications, hot gas piping, low pressure steam lines and solar applications
- // Effectively retards degradation due to ultraviolet radiation
- // EPDM-based, closed-cell structure provides excellent condensation control and prevents energy loss
- // Meets 25/50 flame and smoke index as tested according to ASTM E84

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 **armacell<sup>®</sup>**  
ArmaFlex<sup>®</sup>

## TECHNICAL DATA – ARMAFLEX UT TUBE AND ROLL INSULATION

### Description

Black, EPDM-based, flexible, closed-cell elastomeric thermal insulation in tubular form, with and without factory applied lapseal closure, and roll form. (Formerly branded as UT SolaFlex).

### Applications

Pipe insulation for: Pipe and equipment insulation for: Variable Refrigerant Flow (VRF). solar collectors, refrigeration, hot gas, dual temperature, low-pressure steam, and stainless steel applications.

### Approvals, Certifications, Compliances

- GREENGUARD Gold Certified
- Manufactured without CFCs, HFCs, HCFCs, PBDEs, or Formaldehyde
- ASTM C 534 Type I (Tubular) Grade 2, Type II (Sheet) Grade 2
- Meets Living Building Challenge requirements
- All Armacell facilities in North America are ISO 9001 certified
- UL 94 recognized V-0, V-1, 5VA (thickness dependent) UL File No. E55798

### Typical Properties

Specifications	ArmaFlex UT Through 1"	AP ArmaFlex FS 1-1.2" and 2" ④	Test Method
	Values	Values	
<b>Thermal Conductivity:</b> Btu • in/h • ft <sup>2</sup> • °F (W/mK)			
75°F Mean Temperature (24°C)	0.28 (0.040)	0.28 (0.040)	ASTM C 177 or C 518
100°F Mean Temperature (38°C)	0.288 (0.0415)	0.288 (0.0415)	
125°F Mean Temperature (52°C)	0.294 (0.0424)	0.294 (0.0424)	
150°F Mean Temperature (66°C)	0.299 (0.0431)	0.299 (0.0431)	
200°F Mean Temperature (93°C)	0.310 (0.0447)	0.310 (0.0447)	
<b>Water Vapor Permeability:</b> Perm-in. [Kg/(s • m • Pa)]	0.08 (1.16 x 10 <sup>-13</sup> )	0.08 (1.16 x 10 <sup>-13</sup> )	ASTM E 96, Procedure A
<b>Flame Spread and Smoke Developed Index:</b>	25/50 rated	25/50 rated	ASTM E 84, UL 723
<b>Water Absorption, % by Volume:</b>	0.2 %	0.2 %	ASTM C1763 Procedure B
<b>Mold Growth:</b>	Passed	Passed	UL181
<b>Fungi Resistance:</b>			ASTM G21/C1338
<b>Upper Use Limit:</b> ①	300°F (150°C)	300°F (150°C)	ASTM C534
<b>Lower Use Limit:</b> ②	-297°F (-183°C) ③	-297°F (-183°C) ③	ASTM C534
<b>Ozone Resistance:</b>	Good	Good	ASTM D 1149
<b>UltraViolet (UV) Resistance</b>	Good	Good	ASTM G90

### Sizes

#### Tubes (LapSeal options available)

Wall Thickness (nominal)	1/2", 3/4" and 1" (13, 19 and 25 mm)
Inside Diameter, Tubular	1/4" through 2-1/2" IPS ( 6 mm through 73 mm)
Length of Sections, Tubular	6' (1.83 m)

#### Rolls

Width	48" (1.22m)
Thickness x Length	1/2" x 70' (13 mm x 21.3 m)
	3/4" x 50' (19 mm x 15.2 m)
	1" x 35' (25 mm x 10.7 m)

### Outdoor Use

Painting with WB Finish or use of other protective jacketing is required to prevent damage to the insulation in exterior applications and to comply with the insulation protection sections of the International Energy Conservation Code (IECC) and ASHRAE 90.1.

- ① Suitable for systems with occasional or intermittent temperatures to 350°F (175°C), with a recommended exposure limit of one 30 minute period at 350°F (175°C) over 24 hours of operation.
- ② At temperatures below -20°F (-29°C), elastomeric insulation starts to become less flexible. However, this characteristic does not affect thermal efficiency or water vapor permeability of ArmaFlex UT insulation.
- ③ For applications of -40°F to -297°F (-40°C to -183°C), contact Armacell.
- ④ For applications requiring 1-1/2" and 2" thickness, specify AP ArmaFlex Tubes or AP ArmaFlex FS Sheets and Rolls.

All data and technical information are based on results achieved under typical application conditions. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. By ordering/receiving product you accept the **Armacell General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these.

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## ABOUT ARMACELL

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

For more information, please visit:  
[www.armacell.us](http://www.armacell.us)

