

UPPER-TEMPERATURE INSULATION

UT SolaFlex

Tube and Roll Insulation

Flexible, closed-cell elastomeric insulation for protection against condensation, mold, energy loss and ultraviolet radiation in upper-temperature applications. UT SolaFlex is PVC free.

- // 300°F upper temperature limit – ideal for solar applications, hot gas piping, low pressure steam lines and VRF/VRF 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 according to ASTM E84

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SolaFlex

TECHNICAL DATA – UT SOLAFLEX TUBE AND ROLL INSULATION

Description

Black, EPDM-based, flexible, closed-cell elastomeric thermal insulation in tubular and roll form

Applications

Pipe insulation for: Variable Refrigerant Flow (VRF), Variable Refrigerant Volume (VRV), solar hot water, HVAC hot gas and low pressure steam, dual temperature lines

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
- Rated for use in return air plenums
- Meets Living Building Challenge requirements
- All Armacell facilities in North America are ISO 9001 certified
- UL 94 File Number E55798
 - 5VA, HF-1 and V-1 for thicknesses 7.5 mm and greater
 - V-0 for thicknesses 13 mm and greater

Typical Properties

Specifications	Values	Test Method
Thermal Conductivity: Btu • in/h • ft ² • °F (W/mK)		
75°F Mean Temperature (24°C)	0.28 (.040)	ASTM C 177 or C 518
100°F Mean Temperature (38°C)	0.288 (0.0415)	
150 F Mean Temperature (66 C)	0.299 (0.0431)	
200 F Mean Temperature (93 C)	0.310 (0.0447)	
Water Vapor Permeability: Perm-in. [Kg/(s • m • Pa)]	0.08 (1.16 x 10 ⁻¹³)	ASTM E 96, Procedure A
Flame Spread and Smoke Developed Index:	25/50 rated	ASTM E 84, UL 723, and NFPA 255
Water Absorption, % by Volume:	0.2 %	ASTM C1763 Procedure B
Mold Growth:	Passed	UL181
Fungi Resistance:		ASTM G21/C1338
Bacterial Resistance:		
Upper Use Limit: ①	300°F (150°C)	ASTM C534
Lower Use Limit: ②	-297°F (-183°C) ③	ASTM C534
Ozone Resistance:	Excellent	ASTM D 1149
UltraViolet (UV) Resistance	Excellent	ASTM G90

Sizes

Tubes		Rolls	
Wall Thickness (nominal)	1/2", 3/4" and 1" (13, 19 and 25 mm)	Width	48" (1.22m)
Inside Diameter, Tubular	1/4" through 2-1/2" IPS (6 mm through 73 mm)	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)
Length of Sections, Tubular	6' (1.83 m)		

Outdoor Use

Painting with WB Finish or 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 UT Solaflex insulation.
- ③ For applications of -40°F to -297°F (-40°C to -183°C), contact Armacell.

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

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic 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 3,100 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

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