

Fiber Free

UT/Solaflex

Tube and Roll Insulation

Fiber-free, flexible, closed-cell elastomeric insulation for protection against condensation, mold, energy loss and ultraviolet radiation in high-temperature applications. UT Solaflex is PVC free.



- 300°F upper temperature limit – ideal for solar applications, hot gas piping and low pressure steam lines
- Effectively retards degradation due to ultraviolet radiation
- EPDM-based, closed-cell structure provides excellent condensation and energy loss control
- Meets 25/50 flame and smoke index ASTM E84
- Ideal for Variable Refrigerant Flow (VRF) and Variable Refrigerant Volume (VRV) applications

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.



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 gas and low pressure steam. Dual temperature lines

Specifications Compliance:

ASTM C 534 Type I (Tubular) Grade 2, Type II (Sheet) Grade 2

UL94 5V-A, V-0, File E 55798

Approvals, Certifications, Compliances:

- GREENGUARD Gold Certified
- Manufactured without CFCs, HFCs, HCFCs, PBDEs, or Formaldehyde

- All Armacell facilities in North America are ISO 9001:2008 certified

Typical Properties

Specifications:	Values	Test Method:
Thermal Conductivity: Btu • in./h • ft ² • °F (W/mK) 75°F Mean Temperature (24°C)	0.28 (0.040)	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
Flame Spread and Smoke Developed Index:	25/50 rated	ASTM E 84
Water Absorption, % by Volume:	0.2%	—
Mold Growth: Fungi Resistance : Bacterial Resistance:	Passed	UL181 ASTM G21/C1338 ASTM G22
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	
Wall Thickness (nominal)	1/2", 3/4" and 1" (13, 19 and 25mm)
Inside Diameter, Tubular	1/4" through 2-1/2" IPS
Length of Sections, Tubular	6' (1.83m)
ROLLS	
Width	48" (1.22m)
Thickness x Length	1/2" x 70' (13mm x 21.3m) 3/4" x 50' (19mm x 15.2m) 1" x 35' (25mm x 10.7m)

Outdoor Use	No UV protection is necessary for performance of the product. However, all elastomeric-based cellular insulation will show surface defects after prolonged exposure to UV radiation. Covering or a protective coating such as WB Finish will minimize these defects if installed outdoors.
--------------------	--

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.

ARMACELL LLC

TEL: 800.866.5638

FAX: 919.304.3847

info.us@armacell.com

www.armacell.us

7600 Oakwood Street Extension, Mebane, NC 27302



Armacell provides this information as a technical service. To the extent the information is derived from sources other than Armacell, Armacell is substantially, if not wholly, relying upon the other source(s) to provide accurate information. Information provided as a result of Armacell's own technical analysis and testing is accurate to the extent of our knowledge and ability, as of date of printing, using effective standardized methods and procedures. Each user of these products, or information, should perform their own tests to determine the safety, fitness and suitability of the products, or combination of products, for any foreseeable purposes, applications and uses by the user and by any third party to which the user may convey the products. Since Armacell cannot control the end use of this product, Armacell does not guarantee that the user will obtain the same results as published in this document. The data and information are provided as a technical service and are subject to change without notice.