



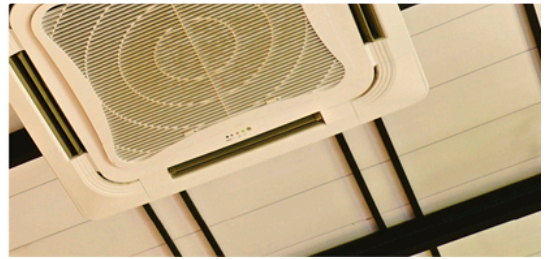
UPPER-TEMPERATURE EPDM INSULATION

ArmaFlex UT

EPDM-based, flexible, closed-cell elastomeric insulation for protection against condensation, mold, and energy loss in upper-temperature applications.

- // Remains flexible up to 300°F
- // Effectively retards degradation due to UV radiation
- // Low VOC, non-halogen, and PVC free

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ArmaFlex[®]

TECHNICAL DATA - ARMAFLEX UT

Brief description	Black, EPDM-based, flexible, close-cell elastomeric thermal insulation in tubular form, with and without factory applied lapseal closure, and roll form. (Formerly branded as UT SolaFlex.) The roll and sheet insulation available in 1 1/2" and 2" thickness as AP ArmaFlex FS Sheet/Roll Insulation.
Product range	Pipe Insulation: 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) Roll Insulation 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) and 1" x 35' (25 mm x 10.7 m). Available in Tube/Roll.
Applications	Pipe and Roll 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 and compliance

Specification compliance	<ul style="list-style-type: none"> • ASTM E84, UL723 • Manufactured without CFCs, HFCs, HCFCs, PBDEs, or Formaldehyde • Conforms to International Residential Code (IRC) 	<ul style="list-style-type: none"> • GREENGUARD Gold Certified • All Armacell facilities in North America are ISO 9001 certified • Conforms to International Energy Conservation Code (IECC) 	<ul style="list-style-type: none"> • Meets Living Building Challenge and Compliant to Red List • Conforms to ASHRAE 90.1 energy standards 	<ul style="list-style-type: none"> • Title 24 California Building Energy Efficiency Standards • Conforms to International Mechanical Code (IMC)
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Property	Value / Assessment							Standard / Test method
Temperature range								
Service temperature ^{1,2,3,4}	Range / Item group	Min. °C	Min. °F	Max. °C (intermittent)	Max. °F (intermittent)	Max. °C	Max. °F	ASTM C534
	Full range	-183	-297	175	350	150	300	

Thermal conductivity

1 - Declared thermal conductivity W/(m·K)	Θm	75 °F [24 °C]	100 °F [38 °C]	125 °F [52 °C]	150 °F [66 °C]	200 °F [93 °C]	ASTM C518, ASTM C177
	λd ≤ [W/(m·K)]	0.040	0.0415	0.0424	0.0431	0.0447	
	k ≤ [Btu-in/ h·ft²·°F]	0.28	0.288	0.294	0.299	0.310	

Fire Performance and Approvals

Surface spread of flame	Flame Spread Index less than 25: Smoke Developed Index less than 50, 25/50 rated	ASTM E84 and UL 723
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UL standards

UL94 5VA ⁵	Pass at minimum thickness 7.5 mm
UL94 V-0 ⁵	Pass at minimum thickness 13 mm
UL94 V-1 ⁵	Pass at minimum thickness 7.5 mm

Fire performance

Practical fire behavior	Self-extinguishing, does not drip, does not spread flames.	UL 94
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Resistance to water vapour

Water vapor permeability	0.08 Perm-in (1.16×10^{-13} Kg/s m Pa)	ASTM E96, procedure A
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Resistance to water

Water absorption	0.2%	ASTM C1763 ⁶
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Physical attributes

Density	3 to 6 pounds per cubic feet (48 to 96 kilograms per cubic meter)	ASTM D1667
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Property	Value / Assessment	Standard / Test method
Weather and UV resistance		
UV resistance	Good	
Resistance to ozone	Good	ASTM D1149
Outdoor use	Painting with WB Finish or use of weather resistant 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.	
Health and environment		
Mold growth	Pass	ASTM G21, ASTM C1338

¹Recommended exposure limit to 30 minute period at 350 °F (175 °C) over a 24 hours operation.

²AP ArmaFlex FS (1 1/2" and 2" Thick EPDM Sheet and Roll products)

³At temperatures below -20°F [-29°C], elastomeric insulation starts to become less flexible. However, this does not affect the performance of ArmaFlex UT in terms of thermal efficiency and resistance to water vapor permeability.

⁴Maximum temperature for self-adhering and lap seal products is 180 ° F (82 °C).

⁵UL file number E535094

⁶Procedure B

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ABOUT ARMACELL

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 25 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.



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