

TECHNICAL DATA – AP ArmaFlex® BLACK LAPSEAL TUBE INSULATION

Description

Black flexible closed-cell elastomeric thermal insulation in tubular form with a self-seal system reinforced with lap seal tape

Applications

Insulation for piping associated with HVAC, VRV and VRF systems, chillers, hot and cold water, refrigeration

Specification Compliance

ASTM C 534, Type I – Grade 1	UL 723	ASTM G21/C1338
ASTM E 84	NFPA 90A, 90B	ASTM G22
NFPA 255	UL 181	ASTM D 1056, 2C1

Approvals, Certifications, Compliances

- 3rd party certified by FM Approvals through 1-1/2" wall thickness
- GREENGUARD® Gold Certified.
- Manufactured without CFCs, HFCs, HCFCs, PBDEs, or Formaldehyde.
- Made with EPA registered Microban® antimicrobial product protection.
- All Armacell facilities in North America are ISO 9001:2008 certified.
- Plenum Rated

Typical Properties

Specifications	Values		Test Method
	3/8" through 1" Wall	1-1/2" and 2" Walls	
Thermal Conductivity: Btu • in/h • ft ² • °F (W/mK)			
75°F Mean Temperature [24°C]	0.245 [0.0353]	0.28 [0.040]	ASTM C 177 or C 518
90°F Mean Temperature [32°C]	0.254 [0.0366]	0.286 [0.041]	
Water Vapor Permeability: Perm-in. [Kg/[s • m • Pa]]	0.05 [0.725 x 10 ⁻¹³]	0.08 [1.16 x 10 ⁻¹³]	ASTM E 96, Procedure A
Flame Spread and Smoke Developed Index:	25/50 rated	25/50 rated	ASTM E 84
Water Absorption, % by Volume:	0.2 %	0.2 %	ASTM C 209 or ASTM C1763
Mold Growth:	Passed	Passed	UL181
Fungi Resistance:			ASTM G21/C1338
Bacterial Resistance:			ASTM G22
Upper Use Limit:	220°F [105°C]	300°F [149°C]	ASTM C534
Lower Use Limit: ①	-297°F [-183°C] ②	-297°F [-183°C] ②	ASTM C534

Sizes

Wall Thickness (nominal) Form	1/2", 1", 1-1/2" (13, 25, 38 mm)
Inside Diameter, Tubular Form	3/8" ID to 6" ID (10 mm to 153 mm)
Length of Sections, Tubular Form	6' (1.8 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 At temperatures below -20°F (-29°C), elastomeric insulation starts to become less flexible. However, this characteristic does not affect thermal efficiency and resistance to water vapor permeability of ArmaFlex insulation.

② For applications of -40°F to -297°F (-40°C to -183°C), contact Armacell



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.

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