SOLUTIONS FOR ENERGY SAVINGS

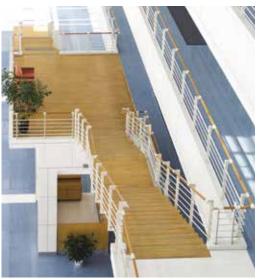
AP ArmaFlex®

Black Lap Seal

The original flexible elastomeric pipe insulation with a lap seal condensation, mold and energy loss.

www.armacell.us















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. For use in commercial, industrial, and residential applications.

Specification Compliance

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

Approvals, Certifications, Compliances

- 3rd party certified by FM Approvals through 1-1/2" wall thickness per FM 4924
- 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 certified.

- Plenum Rated
- Conforms to ASHRAE 90.1 Energy Standards
- Conforms to building codes: International Mechanical Code, IMC, International Energy Conservation Code, IECC, International Residential Code, IRC, Title 24 California Building Energy Efficiency Standards.

Typical Properties

Specifications	Values		Test Method
	3/8" through 1" Wall (NBR/PVC based)	1-1/2" and 2" Walls (EPDM based)	
Thermal Conductivity: Btu • in/h • ft2 •	°F (W/mK)		
50°F Mean Temperature (10°C) 75°F Mean Temperature (24°C) 100°F Mean Temperature (38°C) 125°F Mean Temperature (52°C)	0.235 (0.034) 0.245 (0.0353) 0.257 (0.037) 0.268 (0.039)	0.278 (0.040) 0.28 (0.040) 0.289 (0.041) 0.300 (0.043)	ASTM C 177 or C 518
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, UL 723
Water Absorption, % by Volume:	0.2 %	0.2 %	ASTM C 209 or ASTM C1763
Mold Growth: Fungi Resistance:	Passed	Passed	UL181 ASTM G21/C1338
Maximum Service Temperature	220°F (105°C) ①	300°F (149°C) ^②	ASTM C534
Minimum Service Temperature ³	-297°F (-183°C) ^④	-297°F (-183°C) ^④	ASTM C534

Cizoc

51265	
Wall Thickness (nominal) Form	3/8", 1/2", 3/4" 1", 1-1/2", 2" (10, 13, 19, 25, 38, 50 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.

- 10 AP ArmaFlex BST Pipe Insulation can withstand temperatures as high as 250°F for 96 hour time periods when tested according to ASTM C411 Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation.
- 1-1/2" and 2" AP ArmaFlex tubes are formulated with EPDM rubber giving them a higher upper use temperature than AP ArmaFlex tubes less than 1-1/2" wall thickness.
 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
- 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.

Microban antimicrobial product protection is limited to the product itself and is not designed to protect the users of these products from disease causing microorganisms, or as a substitute for normal cleaning and hygiene practices. Microban International, Ltd. makes neither direct nor implied health claims for the products containing Microban® antimicrobial product protection. Data, photomicrographs and information presented are based on standard laboratory tests and are provided for comparative purposes to substantiate antimicrobial activity for non-public health uses. Microban is a registered trademark of Microban International, Ltd.

AP ArmaFlex BLACK LAPSEAL TUBE INSULATION - R VALUES

IPBST05838	3/8 " Walls		
IPBST07838 3/4" Copper 2.4 IPBST11838 1" Copper 2.3 IPBST13838 1-1/4" Copper 2.5 IPBST15838 1-1/2" IPS 2.4 IPBST11038 1-1/2" IPS 2.4 IPBST21838 2" Copper 2.5 IPBST21838 2" Copper 2.4 IPBST03812 1/4" Copper 3.3 IPBST05812 1/2" Copper 3.4 IPBST05812 1/2" Copper 3.3 IPBST05812 1/2" Copper 3.3 IPBST07812 3/4" Copper 3.3 IPBST1812 1" Copper 3.3 IPBST1812 1" Copper 3.2 IPBST1812 1-1/4" Copper 3.2 IPBST15812 1-1/2" IPS 3.1 IPBST15812 1-1/2" IPS 3.1 IPBST21812 2" Copper 3.2 IPBST28112 2" Copper 3.2 IPBST2812 2-1/2" IPS 3.2 IPBST38112 3" Copper 3.2 IPBST38112 3" Copper 3.2 IPBST38112 3" Copper 3.1 IPBST38112 3" Copper 3.1 IPBST38112 4" Copper 3.1 IPBST4812 4" Copper 3.1 IPBST4812 4" Copper 5.5 IPBST0012 4" IPS 3.0 IPBST00134 4" IPS 3.0 IPBST001434 5/8" Copper 5.5 IPBST003434 5/8" Copper 5.5 IPBST003434 1/4" Copper 5.4 IPBST00343 1-1/4" Copper 5.4 IPBST10344 1" Copper 5.4 IPBST11834 1" Copper 5.4 IPBST11834 1" Copper 5.5 IPBST11834 1" Copper 5.4 IPBST11834 1" Copper 5.5 IPBST11834 1-1/2" Copper 5.5 IPBST31834 3 " Copper 4.6 IPBST31834 3 " Copper 4.6 IPBST31834 3 " Copper 4.5 IPBST31834 4" Copper 4.5 IPBST31834 4" Copper 4.5 IPBST31834 4" Co	IPBST05838	1/2" Copper	2.6
IPBST07838 3/4" Copper 2.4 IPBST11838 1" Copper 2.3 IPBST13838 1-1/4" Copper 2.5 IPBST15838 1-1/2" IPS 2.4 IPBST11038 1-1/2" IPS 2.4 IPBST21838 2" Copper 2.5 IPBST21838 2" Copper 2.4 IPBST03812 1/4" Copper 3.3 IPBST05812 1/2" Copper 3.4 IPBST05812 1/2" Copper 3.3 IPBST05812 1/2" Copper 3.3 IPBST07812 3/4" Copper 3.3 IPBST1812 1" Copper 3.3 IPBST1812 1" Copper 3.2 IPBST1812 1-1/4" Copper 3.2 IPBST15812 1-1/2" IPS 3.1 IPBST15812 1-1/2" IPS 3.1 IPBST21812 2" Copper 3.2 IPBST28112 2" Copper 3.2 IPBST2812 2-1/2" IPS 3.2 IPBST38112 3" Copper 3.2 IPBST38112 3" Copper 3.2 IPBST38112 3" Copper 3.1 IPBST38112 3" Copper 3.1 IPBST38112 4" Copper 3.1 IPBST4812 4" Copper 3.1 IPBST4812 4" Copper 5.5 IPBST0012 4" IPS 3.0 IPBST00134 4" IPS 3.0 IPBST001434 5/8" Copper 5.5 IPBST003434 5/8" Copper 5.5 IPBST003434 1/4" Copper 5.4 IPBST00343 1-1/4" Copper 5.4 IPBST10344 1" Copper 5.4 IPBST11834 1" Copper 5.4 IPBST11834 1" Copper 5.5 IPBST11834 1" Copper 5.4 IPBST11834 1" Copper 5.5 IPBST11834 1-1/2" Copper 5.5 IPBST31834 3 " Copper 4.6 IPBST31834 3 " Copper 4.6 IPBST31834 3 " Copper 4.5 IPBST31834 4" Copper 4.5 IPBST31834 4" Copper 4.5 IPBST31834 4" Co	IPBST03438		2.4
IPBST11838	IPBST07838		2.4
IPBST13838	IPBST11838		2.3
IPBST15838	IPBST13838		2.2
IPBST11038	IPBST15838		2.5
Tems			
1/2 "WALLS			
IPBST01212 3/8" Copper 3.3 3			
IPBST01212 3/8" Copper 3.3 3.3 3.4 3.4 3.4 3.4 3.4 3.4 3.5 3	1/2 " WALLS		
IPBST05812	IPBST03812	1/4" Copper	3.3
IPBST03412 5/8" Copper 3.3 3.3 3.3 3.4" Copper 3.3 3.2 3.2 3.2 3.3 3.2 3.3 3.3 3.3 3.2 3.3 3.3 3.3 3.2 3.3	IPBST01212	3/8" Copper	3.3
IPBST07812 3/4" Copper 3.3 3.2 3.3 3.2 3.3 3	IPBST05812	1/2" Copper	3.4
IPBST07812 3/4" Copper 3.3 3.2 3.3 3.2 3.3 3	IPBST03412	5/8" Copper	3.3
IPBST13812	IPBST07812		3.3
IPBST15812	IPBST11812	1" Copper	3.3
IPBST15812	IPBST13812	1-1/4" Copper	3.2
PBST21812 2" Copper 3.2	IPBST15812		3.2
IPBST21812 2" Copper 3.2 IPBST20012 2" IPS 3.2 IPBST25812 2-1/2" Copper 3.2 IPBST21012 2-1/2" IPS 3.2 IPBST31812 3" Copper 3.2 IPBST30012 3" IPS 3.1 IPBST35812 3-1/2" Copper 3.1 IPBST41812 4" Copper 3.1 IPBST40012 4" IPS 3.0 IPBST01234 3/8" Copper 5.5 IPBST01234 3/8" Copper 5.5 IPBST01234 3/8" Copper 5.6 IPBST01234 3/4" Copper 5.6 IPBST01834 1/2" Copper 5.6 IPBST01834 1/2" Copper 5.6 IPBST01834 1" Copper 5.4 IPBST11834 1" Copper 5.4 IPBST11834 1" Copper 5.4 IPBST1834 1-1/4" Copper 5.3 IPBST15834 1-1/2" Copper 5.1 IPBST1034 1 1/2" IPS 4.9 IPBST20034 2" IPS 5.2 IPBST20034 2" IPS 5.2 IPBST21034 2-1/2" IPS 5.0 IPBST31834 3" Copper 4.6 IPBST31834 3" Copper 4.6 IPBST30034 3" IPS 4.9 IPBST31834 3" Copper 4.5 IPBST31834 3-1/2" Copper 4.5 IPBST31834 3-1/2" Copper 4.5 IPBST31834 3-1/2" Copper 4.5 IPBST31834 3-1/2" Copper 4.5 IPBST31834 4" Copper 4.5 IPBST31834 4" Copper 4.5 IPBST31834 3-1/2" Copper 4.5 IPBST31834 4" Copper 4.5	IPBST11012	1-1/2" IPS	3.1
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PBST21012 2-1/2" IPS 3.2	IPBST20012		3.2
IPBST21012 2-1/2" IPS 3.2 IPBST31812 3" Copper 3.2 IPBST30012 3" IPS 3.1 IPBST35812 3-1/2" Copper 3.1 IPBST41812 4" Copper 3.1 IPBST40012 4" IPS 3.0 IPBST40012 4" IPS 3.0 IPBST01234 3/8" Copper 5.5 IPBST01234 3/8" Copper 5.6 IPBST01234 3/8" Copper 5.6 IPBST01234 3/4" Copper 5.5 IPBST01234 3/4" Copper 5.6 IPBST01234 3/4" Copper 5.6 IPBST01234 3/4" Copper 5.6 IPBST01234 1" Copper 5.4 IPBST11834 1" Copper 5.4 IPBST11834 1-1/4" Copper 5.3 IPBST15834 1-1/2" Copper 5.1 IPBST15834 1-1/2" Copper 5.1 IPBST1034 1 1/2" IPS 4.9 IPBST21834 2" Copper 4.8 IPBST20034 2" IPS 5.2 IPBST21034 2-1/2" IPS 5.0 IPBST31834 3" Copper 4.6 IPBST30034 3" IPS 4.9 IPBST30034 3" IPS 4.9 IPBST30034 3" IPS 4.9 IPBST35834 3-1/2" Copper 4.5 IPBST35834 4" Copper 4.5 IPBST41834	IPBST25812	2-1/2" Copper	3.2
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IPBST30012 3" IPS 3.1 IPBST35812 3-1/2" Copper 3.1 IPBST41812 4" Copper 3.1 3.0 IPBST40012 4" IPS 3.0 3.0 IPBST40012 4" IPS 3.0	IPBST31812		3.2
IPBST35812 3-1/2" Copper 3.1 3.1 3.1 3.1 3.1 3.0 3.1 3.0			
IPBST41812			
Tems	IPBST41812		3.1
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The color of the	IPBST03434	5/8" Copper	5.5
IPBST13834	IPBST07834	3/4" Copper	5.4
IPBST15834 1-1/2" Copper 5.1 IPBST11034 1 1/2" IPS 4.9 IPBST21834 2" Copper 4.8 IPBST20034 2" IPS 5.2 IPBST25834 2-1/2" Copper 4.7 IPBST21034 2-1/2" IPS 5.0 IPBST31834 3" Copper 4.6 IPBST30034 3" IPS 4.9 IPBST35834 3-1/2" Copper 4.5 IPBST41834 4" Copper 4.5	IPBST11834	1" Copper	5.4
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IPBST31834 3 " Copper 4.6 IPBST30034 3" IPS 4.9 IPBST35834 3-1/2" Copper 4.5 IPBST41834 4" Copper 4.5	IPBST21034		
IPBST30034 3" IPS 4.9 IPBST35834 3-1/2" Copper 4.5 IPBST41834 4" Copper 4.5			
IPBST35834 3-1/2" Copper 4.5 IPBST41834 4" Copper 4.5			
IPBST41834 4" Copper 4.5			
	IPBST40034	4" IPS	4.8

1" WALLS		
IPBST03810	1/4" Copper	7.3
IPBST01210	3/8" Copper	7.2
IPBST05810	1/2" Copper	7.2
IPBST03410	5/8" Copper	7.0
IPBST07810	3/4" Copper	7.0
IPBST11810	1" Copper	7.2
IPBST13810	1-1/4" Copper	7.2
IPBST15810	1-1/2" Copper	7.2
IPBST11010	1-1/2" IPS	6.9
IPBST21810	2" Copper	6.8
IPBST20010	2" IPS	7.1
IPBST25810	2-1/2" Copper	6.5
IPBST21010	2-1/2" IPS	6.8
IPBST31810	3" Copper	6.3
IPBST30010	3" IPS	6.6
IPBST35810	3-1/2" Copper	6.2
IPBST41810	4" Copper	6.1
IPBST40010	4" IPS	6.4
IPBST50010	5 " IPS	6.2
IPBST40010	6 " IPS	6.1

IPBST03815	1/4" Copper	13.7
IPBST01215	3/8" Copper	12.7
IPBST05815	1/2" Copper	12.0
IPBST03415	5/8" Copper	11.3
IPBST07815	3/4" Copper	10.8
IPBST11815	1" Copper	10.1
IPBST13815	1-1/4" Copper	9.6
IPBST15815	1-1/2" Copper	9.2
IPBST11015	1-1/2" IPS	8.7
IPBST21815	2" Copper	8.6
IPBST20015	2" IPS	8.8
IPBST25815	2-1/2" Copper	8.2
IPBST21015	2-1/2" IPS	8.4
IPBST31815	3" Copper	7.9
IPBST30015	3" IPS	8.1
IPBST35815	3-1/2" Copper	7.7
IPBST41815	4" Copper	7.5
IPBST40015	4" IPS	7.8
IPBST50015	5" IPS	7.5
IPBST60015	6" IPS	7.3

2" WALLS

IPBST03820	1/4" Copper	19.7
IPBST01220	3/8" Copper	18.2
IPBST05820	1/2" Copper	17.2
IPBST03420	5/8" Copper	16.2
IPBST07820	3/4" Copper	15.5
IPBST11820	1" Copper	14.5
IPBST13820	1-1/4" Copper	13.7
IPBST15820	1-1/2" Copper	13.1
IPBST11020	1-1/2" IPS	12.4
IPBST21820	2" Copper	12.2
IPBST20020	2" IPS	12.3
IPBST25820	2-1/2" Copper	11.6
IPBST21020	2-1/2" IPS	11.7
IPBST31820	3" Copper	11.1
IPBST30020	3" IPS	11.2
IPBST35820	3-1/2" Copper	10.7
IPBST41820	4" Copper	10.5
IPBST40020	4" IPS	10.7
IPBST50020	5" IPS	10.2
IPBST60020	6" IPS	9.9

^{*} These specifications are based on the measurement methods employed by Armacell. Other methods may not result in the same values and cannot be used to determine if the product is within the given tolerance.

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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 3,135 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.

