



AP/Armaflex®

TUBES, SHEETS and ROLLS

NOW AVAILABLE IN

1 1/2"  Tubes
 Sheets & Rolls

2"  Sheets & Rolls

THICKER, CODE COMPLIANT, MOLD RESISTANT

Conforms to NFPA 90A and 90B

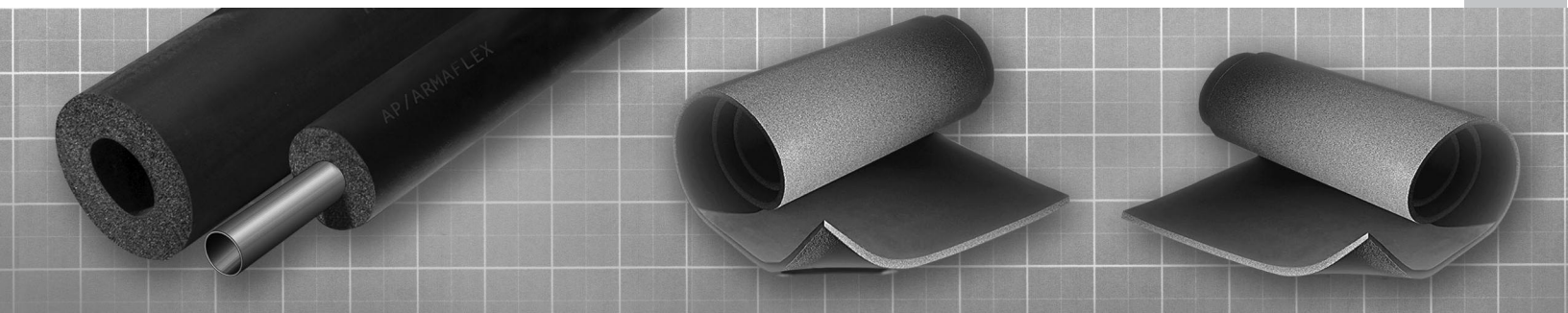
Made with Microban® antimicrobial product protection

Improved condensation protection for severe design conditions

Conforms to ASTM C 534, Type I and II – Grade 1



ALL ARMACELL FACILITIES IN NORTH AMERICA ARE ISO 9001:2000 CERTIFIED.



Code Compliant (25/50 rated) AP Armaflex

Physical Data: Tubes

Physical Properties		Test Method
Thermal conductivity, Btu • in./h • ft ² • °F (W/mK) 75°F mean temp (24°C)	0.28 (0.040)	ASTM C 518 or ASTM C 177
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	ASTM E 84
Mold growth Fungi resistance Bacterial resistance	UL181 ASTM G21/C1338 ASTM G22	Meets requirements Meets requirements Meets requirements
Water absorption, % by volume	0.2	ASTM C 209
Upper use limit ①	220°F (105°C)	—
Lower use limit ②	-297°F (-183°C)*	—
Ozone resistance	EXCELLENT	—
Sizes Wall thickness**	1-1/2" (38mm)	—
Inside diameter, tubular form	7/8" to 4" IPS (22mm to 114mm)	—
Length of sections, feet, tubular form	3 (0.9m)	—
Density, typical range ③	3.0 - 6.0 lbs./ft. ³	ASTM D 1622 or D 1667

**The thickness is increased according to ASHRAE 90.1 for equivalent performance.

Physical Data: Sheets & Rolls

Physical Properties		Test Method
Thermal conductivity, Btu • in./h • ft ² • °F (W/m•K) 75°F mean temp (24°C)	0.28 (0.040)	ASTM C 518 or ASTM C 177
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	ASTM E 84
Mold growth Fungi resistance Bacterial resistance	UL181 ASTM G21/C1338 ASTM G22	Meets requirements Meets requirements Meets requirements
Water absorption, % by volume	0.2%	ASTM C 209
Upper use limit ①	180/220°F (82°C/105°C)	—
Lower use limit ②	-297°F (-183°C)*	—
Ozone resistance	EXCELLENT	—
Sizes – Sheet Width and length Thickness**	36" x 48" (.915m x 1.22m) 1-1/2" (38mm) 2" (50mm)	—
Sizes – Roll Width Thickness** x Length	48" (1.22mm) 1-1/2" x 25' (38mm x 7.6m) 2" x 18' (50mm x 5.5m)	—
Density, typical range ③	3.0 to 6.0 lbs./ft. ³	ASTM D 1622 D 1667

**The thickness is increased according to ASHRAE 90.1 for equivalent performance.

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.

Notes

- ① On the heating cycle, AP Armaflex Pipe Insulation will withstand temperatures as high as 220°F (105°C). 520 or 520 BLV Adhesive may be used with pipe insulation applications up to 220°F (105°C).
 - 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 Armaflex insulation.
 - ③ Reference only.
- * For applications of -40°F to -297°F (-40°C to -183°C), contact Armacell.

Notes

- ① When AP Armaflex Sheet is installed by adhering butt joints and seams only, the upper temperature limit is 220°F (105°C) using 520 or 520 BLV Adhesive. AP Armaflex Sheet adhered with complete adhesive coverage on flat or curved metal surfaces may be applied to surfaces that will operate as high as 180°F (82°C) using 520 or 520 BLV Adhesive.
 - 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 Armaflex insulation.
 - ③ Reference ONLY
- * For applications of -40°F to -297°F (-40°C to -183°C), contact Armacell.

Microban is a registered trademark of Microban Products Company.



ARMACELL LLC
7600 Oakwood Street Extension
P. O. Box 1038
Mebane, NC 27302

TEL. 919 304-3846/800-866-5638
FAX 919 304-3847
E-MAIL info.us@armacell.com
INTERNET www.armacell.com

For any updates on this document, please refer to our website.

www.armacell.com