

ENERGY SAVING SOLUTIONS

AP ArmaFlex[®] SA AP ArmaFlex[®] FS SA Self-adhering Sheet and Roll Insulation

The original fiber-free, flexible elastomeric pipe, valve and duct insulation - with a labor-saving self-adhering system – for reliable protection against condensation, mold and energy loss. AP ArmaFlex FS SA is PVC free

- // Self-adhering system makes application easy and reduces installation time
- // Closed-cell structure provides excellent condensation control

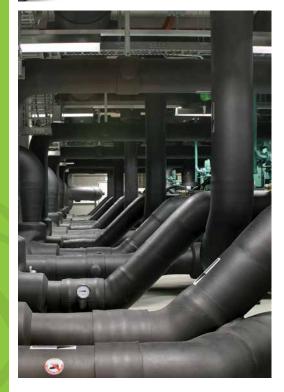
- Up to 1" thickness in AP ArmaFlex
- // Thickness up to 2" with R-value up to R-8

www.armacell.us









AP ArmaFlex®

TECHNICAL DATA – AP ArmaFlex® SA AND AP ArmaFlex® FS SA SHEET AND ROLL INSULATION - SELF ADHERING

Description

Black flexible closed-cell elastomeric thermal insulation in sheet and roll form with a self-adhering backing.					
Specification Compliance					

ASTM C 534, Type II — Sheet Grade 1	ASTM G21/C1338	MIL-P-15280J, FORM S ²	UL 181
ASTM C 1534	ASTM G22	MIL-C-3133C (MIL STD 670B)	City of LA – RR 7642
ASTM D 1056, 2C1	CAN/ULC S1021 ①	Grade SBE 3 ②	
ASTM E 84, NFPA 255, UL723	MEA 107-89M	NFPA 90A, 90B	

Approvals, Certifications, Compliances

3rd party certified by FM Approvals through 1" 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.

Typical Properties

Specifications	Values			Test Method
	AP ArmaFlex SA Through 1"	AP ArmaFlex FS SA 1-1/2" and 2"	AP ArmaFlex SA 1-1/2" and 2"	
Thermal Conductivity: Btu • in/h •	ft² • °F (W/mK)			
75°F Mean Temperature (24°C) 90°F Mean Temperature (32°C)	0.245 (0.0353) 0.254 (0.0366)	0.28 (0.040) 0.28 (0.040)	0.25 (0.036) 0.256 (0.037)	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)	0.05 (0.725 x 10-13)	ASTM E 96, Procedure A
Flame Spread and Smoke Developed Index:	25/50 rated	25/50 rated	Not rated	ASTM E 84 CAN/ULC S102 ①
Water Absorption, % by Volume:	0.2 %	0.2 %	0.2 %	ASTM C 209 or ASTM C1763
Mold Growth: Fungi Resistance: Bacterial Resistance:	Passed	Passed	Passed	UL181 ASTM G21/C1338 ASTM G22
Upper Use Limit:	180°F (82°C)	180°F (82°C)	180°F (82°C)	
Lower Use Limit: ³	-30°F (-34°C)	-30°F (-34°C)	-30°F (-34°C)	

① AP ArmaFlex meets CAN/ULC S102 through 1" thickness.
 ② AP ArmaFlex meets MIL-P-15280J, FORM S and MIL-C-3133C (MIL STD 670B) Grade SBE through 1" thickness. Only AP ArmaFlex is FM Certified.

³ 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.

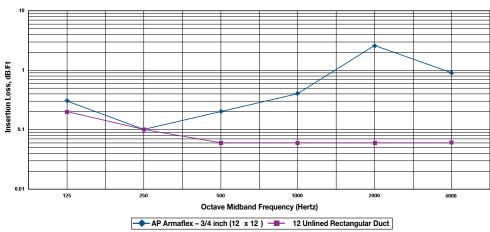
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R-Value	R-1.0	R-1.5	R-2.1	R-	-3.1	R-4.2	R-6	R-8
Thickness:	1/4" (6 mm)	3/8" (10 mm)	1/2" (13 mm	i) 3/4" (1	19 mm)	1" (25 mm)	1-1/2" (38 mm)	2" (50 mm)
Sound Absorption Coefficients Frequency	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC	SAA
Thickness Nom. 1" (25 mm)	0.01	0.13	0.39	0.69	0.29	0.26	0.40	0.38
Thickness Nom. 1-1/2" (38 mm)	0.07	0.26	0.92	0.31	0.49	0.53	0.50	0.49
Thickness Nom. 2" (50 mm)	0.14	0.62	0.44	0.43	0.51	0.45	0.50	0.51
Sizes								
Sheet: Width x Length Thickness (nominal)	36" x 48" (.915 m x 1.22 m) 1/4", 3/8", 1/2", 3/4", 1", 1-1/2" & 2" (6, 10, 13, 19, 25, 38 & 50 mm)							
Roll: Width Thickness (nominal) x Length	1/2" x 70' (13 mm x 21.4 m) 1-1			1-1/2" x 25'	1" x 35' (25 mm x 10.7 m) 1-1/2" x 25' (38 mm x 7.6 m) 2" x 18' (50 mm x 5.4 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.							

Sound Transmission Class (STC)

	Thickness	STC Class
AP Armaflex	Nom. 1/2" (13 mm)	25
AP Armaflex	Nom. 1" (25 mm)	25

Acoustics: Insertion Loss





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.

All data and technical information are based on results achieved under typical application conditions. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. By ordering/receiving product you accept the **Armacell General Terms and Conditions** of **Sale** applicable in the region. Please request a copy if you have not received these.

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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 3,000 employees and 26 production plants in 17 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.

For more information, please visit: www.armacell.us 800-866-5638

