

AP/Armaflex® AP/Armaflex® FS

Sheet & Roll Insulation

Fiber Free

The original, fiber-free, flexible elastomeric pipe, valve and duct insulation for reliable protection against condensation, mold and energy loss. AP Armaflex FS is PVC free.



MALLO & MALLO ARQUITECTOS, SA

☒ STATUS A: NO COMMENTS.

☐ STATUS B: COMMENTS AS NOTED.

☐ STATUS C: REVISE AND RESUBMIT.

Tomás Lee MEP Rep

BY

26/ENERO/2016

SIGN



- Fiber-free, formaldehyde-free, low VOC and non-particulating formulation protects indoor air quality
- Closed-cell structure provides excellent condensation control
- Built-in vapor barrier eliminates need for additional vapor retarder
- Microban® antimicrobial product protection inhibits the growth of mold and mildew in the insulation
- 25/50 rated for use in air plenums up to 1" thickness in AP Armaflex and 1-1/2" and 2" thickness in AP Armaflex FS
- Thickness up to 2" with R-value up to R-8

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.



armacell®



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.*

Technical Data: AP Armaflex® and AP Armaflex® FS Sheet and Roll Insulation

Description:

Black flexible closed-cell elastomeric thermal insulation in sheet and roll form

Specifications Compliance:

ASTM C 534, Type II —
Sheet Grade 1
ASTM C 1534
ASTM D 1056, 2B1

ASTM E 84, NFPA 255, UL723
ASTM G21/C1338
ASTM G22
CAN/ULC S102¹

MEA 107-89M
MIL-P-15280J, FORM S²
MIL-C-3133C (MIL STD 670B)
Grade SBE 3²

NFPA 90A, 90B
UL 181
UL 94 5V-A, V-0, File E55798
City of LA – RR 7642

Approvals, Certifications, Compliances:

- 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 Through 1" | AP Armaflex FS 1-1/2" & 2" | AP Armaflex 1-1/2" & 2" | |
| Thermal Conductivity: Btu • in./h • ft ² • °F (W/mK) | | | | |
| 75°F Mean Temperature (24°C) | 0.245 [0.0353] | 0.28 [0.040] | 0.25 [0.036] | ASTM C 177 or C 518 |
| 90°F Mean Temperature (32°C) | 0.254 [0.0366] | 0.286 [0.041] | 0.256 [0.037] | |
| 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 | Does not pass | ASTM E 84 CAN/ULC S102 ¹ |
| Water Absorption, % by Volume: | 0.2% | 0.2% | 0.2% | ASTM C 209 |
| Mold Growth: | Passed | Passed | Passed | UL181 |
| Fungi Resistance: | | | | ASTM G21/C1338 |
| Bacterial Resistance: | | | | ASTM G22 |
| Upper Use Limit: ³ | 220°F [105°C] | 220°F [105°C] | 220°F [105°C] | ASTM C534 |
| Lower Use Limit: ⁴ | -297°F [-183°C] ⁵ | -297°F [-183°C] ⁵ | -297°F [-183°C] ⁵ | ASTM C534 |
| Ozone Resistance: | GOOD | GOOD | GOOD | Ozone Chamber Test |

| R-Value: | R-1.6 | R-2.1 | R-3.1 | R-4.2 | R-6 | R-8 |
|------------|-------|-------|-------|-------|--------|-----|
| Thickness: | 3/8" | 1/2" | 3/4" | 1" | 1-1/2" | 2" |

Sizes:

| | |
|---|---|
| Sheet: Width x Length Thickness (nominal) | 36" x 48" (.915m x 1.22m) 1/8", 1/4", 3/8", 1/2", 3/4", 1", 1-1/2" & 2" (3, 6, 10, 13, 19, 25, 38 & 50mm) |
| Roll: Width Thickness (nominal) x Length | 48" wide (1.22m) 3/8" x 100' (10mm x 30.5m) 1" x 35' (25mm x 10.7m) 1/2" x 70' (13mm x 21.4m) 1-1/2" x 25' (38mm x 7.6m) 3/4" x 50' (19mm x 15.2m) 2" x 18' (50mm x 5.4m) |

Outdoor Use

Painting with WB Finish or other protective jacketing is required for exterior applications.

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.

³ On the heating cycle, AP Armaflex Pipe Insulation will withstand temperatures as high as 220°F [105°C]. 520, 520 Black or 520 BLV Adhesive may be used with pipe insulation applications up to 220°F [105°C].

⁴ 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.

⁵ For applications of -40°F to -297°F [-40°C to -183°C], contact Armacell.

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