



# AEROFLEX Breathe-EZ<sup>™</sup> EPDM Duct Insulation

Fiber-free acoustic duct liner and wrap | Plenum-rated  
*Available with standard and PSA back*





# AEROFLEX Breathe-EZ™

## Fiber-Free EPDM Duct Insulation

Duct Liner | Duct Wrap | \*Listed & Labeled (1"-2" thick)

Fiber-free, microbial-resistant, acoustic, closed-cell elastomeric duct insulation for safely lining and wrapping HVAC ductwork for thermal efficiency and condensation control. Attenuates lower-frequency airborne and structure-borne sound.

Proprietary blend of nonpolar EPDM rubber is key to consistent, long-lasting thermal performance and protection against moisture and environmental stresses.

Available in rolls: 1/2" [13 mm], 1" [25 mm], 1-1/2" [38 mm], and 2" [50 mm] thicknesses to meet energy code and condensation control requirements.

See back cover for R-Values and acoustic performance.

\*Complies with International Mechanical Code's "Listed & Labeled" requirement for duct insulation contained within plenums.

### Fast, simple to install

#### Available with pressure sensitive adhesive (PSA) back

Low thermal conductivity – reduced insulation thicknesses

Easy to install as a wrap over rectangular, round and oval ducts

Built-in vapor retarder – No supplemental vapor barrier required for most applications\*\*

#### Superior environmental stability

Non-particulating

Nonpolar (hydrophobic) – does not induce or react with water

Smooth skin facing airstream easy to maintain

Suitable for interior and exterior applications\*\*\*

#### Safe and quiet

Fiber-free

Naturally microbial-resistant with a smooth, cleanable surface

Indoor Advantage™ Gold Certified for low chemical emissions

Attenuates lower frequency mechanical noise

Superior fire safety – 25/50 rated (ASTM E84, UL723, CAN/ULC-S102), NFPA 90A/90B and self-extinguishing (ASTM D635) thru 2-inch [50 mm] thick

Verified Environmental Product Declarations (EPD's) and Health Product Declarations (HPD's)

Ultra-low PVC content – less than 1%

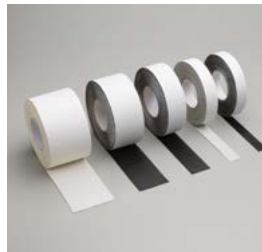


### AEROFLEX EPDM™ insulation system solutions



#### AEROFLEX® Adhesives

Specially formulated adhesives for bonding and vapor-sealing AEROFLEX EPDM™ insulation. Fast tack and LVOC formulations available.



#### Protape®

Zero-perm EPDM-based, self-adhering rubber tape for sealing glued insulation seams and termination points.



#### Aerocoat™

Premium insulation coating specially formulated for AEROFLEX EPDM™ insulation to provide UV protection for exterior applications and as a decorative finish.



#### Aerocoat LVOC®

A low-VOC UV protective coating, best choice for LEED® projects.

\*\*Supplemental vapor barrier may be required in extreme low-temperature or high-humidity applications. Protective jacket required for applications when insulation may be subjected to mechanical damage.

\*\*\*Note: National, state & local energy codes require protection of cellular foam pipe insulation from solar radiation for exterior applications. Jackets and insulation coatings are acceptable. Adhesive tapes are not permitted.

**Product:** Closed-cell EPDM (Ethylene Propylene Diene Monomer)-based rubber elastomeric foam insulation for safely lining and wrapping HVAC ductwork.  
 Skin 2 sides: 1" [25 mm], 1-1/2" [38 mm], 2" [50 mm], 1/2" [13 mm].  
 Roll widths 48" [122 cm], 56-1/4" [143 cm], 59" [150 cm], and 60" [152 cm].  
 See size range on back cover.

**Installation Instructions:**



**Standard Specification:** ASTM C534 Type II Grade 1, C1534 Type I

**Apparent Thermal Conductivity (K) Btu-in/hr-Ft<sup>2</sup> -°F (W/m.K)**

| Mean Temperature | K Value        | Test Method    |
|------------------|----------------|----------------|
| 75°F (24°C)      | 0.255 (0.0368) | ASTM C177/C518 |
| 100°F (38°C)     | 0.260 (0.0375) |                |

**Physical and Operational Properties**

| Property                     | Test Value/Rating   | Test Method                   |
|------------------------------|---|-------------------------------|
| Flame Spread Index (FSI)     | < 25  | ASTM E84, UL723, CAN/ULC-S102 |
| Smoke Developed Index (SDI)  | < 50  | ASTM E84, UL723, CAN/ULC-S102 |
| Service Temperatures         | -70°F to 257°F (-57°C to 125°C)<br>-22°F to 250°F (-30°C to 121°C) with PSA | ASTM C411 <sup>1</sup>        |
| Water Vapor Sorption         | 0.08 perm-inch (4.38 x 10 <sup>-11</sup> g/Pa.s.m)                          | ASTM E96                      |
| Water Absorption             | 0.2%  | ASTM C209/C1763               |
| Dimensional Stability        | < 7.0%  | ASTM C356                     |
| VOC Emissions                | < 0.5 mg/m3   | CDPH Standard Method v1.2     |
| Odor Emission                | Pass  | ASTM C1304                    |
| Corrosiveness                | Pass  | ASTM C665                     |
| Fungi Resistance             | No Growth   | ASTM C1338/G21                |
| Erosion Resistance           | No evidence of erosion @ 10,000 fpm (2.5 x 4,000 fpm)                       | ASTM C1071/UL181              |
| Mold Resistance              | No Growth   | UL 181                        |
| Sound Absorption Coefficient | See back cover  | ASTM C423                     |

<sup>1</sup> AEROFLEX EPDM™ flexibility begins to decrease at -70°F and below. This does not impact the insulating properties of the material.

**Additional Approvals, Certifications & Compliance**

|  |  |
|--|--|
| ASTM C1534, Type I                       | Standard Specification for Flexible Polymeric Foam Sheet Insulation Used as a Thermal and Sound Absorbing Liner for Duct Systems   |
| ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1 | International Green Construction Code® (igCC®)   |
| ANSI/ASHRAE/IES Standard 90.1            | Energy Standard for Buildings Except Low-Rise Residential Buildings  |
| Buy American                             | Buy American, Federal Acquisition Regulation, FAR 52.225 Buy American  |
| CA Title 24                              | California Building Energy Efficiency Standards  |
| California Specification 01350           | VOC Emissions, Standard Method v1.2  |
| CAN/ULC-S102                             | UL and Standard Council of Canada  |
| EPA                                      | Toxic Substances Control Act (TSCA) Persistent, Bioaccumulative, and Toxic (PBT) Chemicals, Per- and Polyfluoralkyl Substances (PFAS)  |
| IECC®                                    | International Energy Conservation Code®  |
| IMC Listed & Labeled                     | International Mechanical Code, Duct Coverings and Linings within plenums   |
| LEED®                                    | U.S. Green Building Council - Leadership in Energy and Environmental Design  |
| NFPA 90A/90B                             | National Fire Protection Association, Standard for the Installation of Air-Conditioning and Ventilating Systems/Standard for the Installation of Warm Air Heating and Air-Conditioning Systems |
| REACH                                    | European Chemicals Agency (ECHA) - Registration, Evaluation, Authorization and Restriction of Chemicals  |
| RoHS                                     | European Union - Restriction of Hazardous Substances   |

**Potential LEED® Credit Contributions**

|                                   |   |
|-----------------------------------|---|
| Energy & Atmosphere (EA)          | Prerequisite: Minimum Energy Performance<br>Credit: Optimize Energy Performance   |
| Materials & Resources (MR)        | Credit: Building Product Disclosure and Optimization - Environmental Product Declarations (EPD), Product Specific Type III<br>Credit: Building Product Disclosure and Optimization - Material Ingredients, verified HPD |
| Indoor Environmental Quality (EQ) | Credit: Low-Emitting Materials<br>Credit: Indoor Air Quality Assessment<br>Credit: Thermal Comfort<br>Credit: Acoustic Performance  |
| Innovation (IN)                   | Credit: Occupant Comfort Survey   |





**AEROFLEX Breathe-EZ™  
EPDM Duct Insulation R-Values**

| Thickness (inches) | 1/2 | 1   | 1-1/2 | 2   |
|--------------------|-----|-----|-------|-----|
| <b>R-value</b>     | 2.1 | 4.2 | 6.1   | 8.1 |

**AEROFLEX Breathe-EZ™  
EPDM Duct Insulation with PSA R-Values**

| Thickness (inches) | 1/2 | 1   | 1-1/2 | 2   |
|--------------------|-----|-----|-------|-----|
| <b>R-value</b>     | 2.1 | 4.2 | 6.1   | 8.1 |

**ROLL SIZE**

| Thickness (inches) | Listed & Labeled | Skin    | 48"      | 56-1/4"      | 59"      | 60"      |
|--------------------|------------------|---------|----------|--------------|----------|----------|
| 1/2"               |                  | 2 sides | 48"x100' | 56-1/4"x100' | 59"x100' | 60"x100' |
| 1"                 | ✓                | 2 sides | 48"x50'  | 56-1/4"x50'  | 59"x50'  | 60"x50'  |
| 1-1/2"             | ✓                | 2 sides | 48"x40'  | 56-1/4"x40'  | 59"x40'  | 60"x40'  |
| 2"                 | ✓                | 2 sides | 48"x20'  | 56-1/4"x20'  | 59"x20'  | 60"x20'  |

**Sound Absorption Coefficients (min) Using Test Method ASTM C423 Type A Mounting Practice E795**

| Frequency      | 125  | 250  | 500  | 1000 | 2000 | 4000 | NRC  | SAA  |
|----------------|------|------|------|------|------|------|------|------|
| 1/2" (13 mm)   | 0.03 | 0.04 | 0.11 | 0.37 | 0.60 | 0.29 | 0.30 | 0.30 |
| 1" (25 mm)     | 0.08 | 0.13 | 0.69 | 0.44 | 0.47 | 0.46 | 0.45 | 0.46 |
| 1-1/2" (25 mm) | 0.10 | 0.27 | 0.82 | 0.36 | 0.49 | 0.53 | 0.50 | 0.54 |
| 2" (50 mm)     | 0.09 | 0.43 | 0.63 | 0.55 | 0.49 | 0.55 | 0.56 | 0.56 |

