



AEROFLEX®

EPDM Pipe & Duct Insulation



Sheets & Rolls



Standard & Self-Seal Tubes

AEROFLEX®-EP

FM Approved

FM Approvals Class: 4924 Pipe and Duct Insulation
FM Approval ID: PR465702





AEROFLEX®-EP

FM Approved EPDM Pipe & Duct Insulation

HVAC | VRF | Chilled Water | Refrigeration
Hot and Cold Water Piping

Closed-cell elastomeric foam pipe and duct insulation that conserves energy and controls condensation for projects that require FM Approval. Proprietary blend of nonpolar EPDM rubber is key to consistent, long-lasting thermal performance and protection against moisture and environmental stresses.

Available in tubes (standard & self-seal) and sheets/rolls (standard, no PSA).

See back cover for size range and R-Values.

Fast, simple to install

Self-Seal and standard unslit pipe insulation available up to 6" IPS and 2" thick.

Self-Seal tubes reduce installation time.

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

Superior environmental stability

Nonpolar - does not induce or react with water

Low thermal conductivity - reduced insulation thicknesses

Greater UV resistance than NBR/PVC insulation

Non-corrosive on stainless steel & copper piping

Suitable for interior & exterior applications**

Safe for indoor environments

Certified to meet FM Approval, Class of Work, Standard FM 4924 Pipe & Duct Insulation

No CFCs, HFCs, HCFCs, PBDEs, formaldehyde, nitrosamine or fibers

Naturally mold-resistant: no biocides required

Ultra-low PVC content – less than 1%



AEROFLEX EPDM™ insulation system solutions

(only AeroSeal Adhesive is FM Approved)



Aerofix®

Light-weight, rigid pipe supports, pre-insulated with high-density, load-bearing closed-cell foam and encased with zero-perm EPDM polymer membrane. Includes built-in pressure sensitive Protape® closure system.



Courtesy of Nelson Insulation Company

Protape®

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



AEROFLEX® Adhesives

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



Aerocoat®

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

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

**For exterior applications, Aerocoat®, Aerocoat LVOC®, or an insulation jacket are recommended for UV protection to maximize the insulation's life cycle.

Product: Closed-cell EPDM (Ethylene Propylene Diene Monomer)-based rubber elastomeric foam pipe and duct insulation for HVAC (VRF, chilled water & refrigeration) and plumbing piping.

Installation Instructions:



Standard Specification: ASTM C534 Type I & II Grade 1, FM Class: 4924

Thermal Conductivity (K) Btu-in/hr-Ft² -°F (W/m.K)

Mean Temperature	K Value	Test Method
50°F (10°C)	0.257 (0.037)	ASTM C177/C518
75°F (24°C)	0.266 (0.038)	
100°F (38°C)	0.276 (0.040)	
125°F (52°C)	0.283 (0.041)	
150°F (66°C)	0.290 (0.042)	
200°F (93°C)	0.304 (0.044)	
250°F (121°C)	0.329 (0.047)	

Physical and Operational Properties

Property	Test Value/Rating	Test Method
Service Temperature, CONTINUOUS	-70°F to 257°F -57°C to 125°C	ASTM C411 ¹
Ozone Resistance	No cracking	ASTM D1171
Water Vapor Permeability, Max	< 0.10 (1.45 x 10 ⁻¹⁰ power] g/Pa.s.m)	ASTM E96
Water Absorption (% by Volume), Max	0.2%	ASTM C209/C1763
Surface Burning/Flammability (through 2" thick)	FM Approval ID: PR465702 Pass	FM Approvals, Standard 4924 UL94 V-0
Linear Shrinkage	< 7.0%	ASTM C534

¹ 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 D1056, 2C1	Standard Specification for Flexible Cellular Materials–Sponge or Expanded Rubber
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
IECC®	International Energy Conservation Code®
REACH	European Chemicals Agency (ECHA) - Registration, Evaluation, Authorization and Restriction of Chemicals
RoHS	European Union - Restriction of Hazardous Substances





AEROFLEX®-EP Pipe Insulation R-Values

Pipe Size (inches)	IPS (inches)	Thickness (in)			
		1/2	1	1-1/2	2
1/4		3.5	9.0	15.5	24.2
3/8		3.2	8.1	14.1	22.0
1/2	1/4	3.0	7.4	13.0	20.2
5/8	3/8	2.8	7.2	12.3	19.0
3/4		2.7	6.9	11.7	18.2
7/8	1/2	2.8	6.7	11.8	17.2
1		2.7	6.4	11.2	16.3
1-1/8	3/4	2.7	6.3	11.1	16.0
1-1/4		2.8	6.0	10.5	15.2
1-3/8	1	2.8	5.9	10.4	15.0
1-5/8	1-1/4	2.7	5.7	10.2	14.8
1-7/8	1-1/2	2.6	5.5	9.8	14.1
2-1/8		2.7	5.4	9.6	13.8
2-3/8	2	2.7	5.3	9.3	13.4
2-5/8		2.6	5.2	9.1	13.0
2-7/8	2-1/2	2.6	5.1	8.9	12.7
3-1/8		2.6	5.0	8.7	12.5
3-1/2	3	2.7	4.9	8.5	12.1
3-5/8		2.7	4.9	8.5	12.1
4-1/8		2.6	4.8	8.3	11.7
4-1/2	4	2.6	4.7	8.1	11.5
5-1/8		2.6	4.6	7.9	11.2
5-1/2	5	2.6	4.6	7.8	11.0
6-1/8		2.5	4.5	7.7	10.8
6-5/8	6	2.5	4.5	7.6	10.6

AEROFLEX®-EP Sheet & Roll Insulation R-Values

Wall Thickness (inches)	1/2	1	1-1/2	2
R-Value	2.0	4.0	6.0	8.0