



AEROFLEX[®]

EPDM Pipe Insulation



AEROFLEX EPDM[™] White/Gray

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

EPDM rubber pipe insulation in a white/gray color. Ideal anywhere a lighter color insulation is desired for aesthetics. AEROFLEX® White/Gray is manufactured with a proprietary blend of nonpolar EPDM rubber for the long-lasting thermal performance and protection against moisture and environmental stresses.

Available in unslit tubes. Wide range of sizes and thicknesses to meet energy code and condensation control requirements. See back cover.

Perfect for open ceilings & clean environments

White/gray color blends into light-color ceilings

Supports a clean, sterile aesthetic design

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

Stable, efficient performance

Nonpolar - does not induce or react with water

Low thermal conductivity - reduced insulation thicknesses

Suitable for interior and exterior applications**

Greater UV resistance than NBR/PVC insulation

Non-corrosive on copper and stainless steel piping

Safe for indoor environments

Superior fire safety - 25/50 rated (ASTM E84, UL723, CAN/ULC-S102) and self-extinguishing (ASTM D635) thru 2-inch thick

GREENGUARD Gold Certified for low chemical emissions

Environmental Product Declaration (EPD)

Health Product Declaration (HPD)

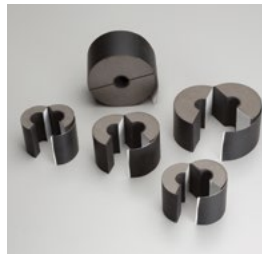
No CFCs, HFCs, HCFCs, PBDEs, formaldehyde, nitrosamine or fibers

Naturally mold-resistant: no biocides required

Ultra-low PVC content – less than 1%



AEROFLEX EPDM™ insulation system solutions



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.



AeroFit™

Pre-fabricated fitting covers made of AEROFLEX EPDM™ rubber for a high-quality installation on HVAC and plumbing piping.



Courtesy of Nelson Insulation Company

Protape®

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



AEROFLEX® Adhesives

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

*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 insulation for HVAC (VRF, chilled water & refrigeration) and plumbing piping.

Installation Instructions:



Standard Specification: ASTM C534 Type I Grade 1

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

Mean Temperature	K Value	Test Method
50°F (10°C)	0.237 (0.0342)	ASTM C177/C518
75°F (24°C)	0.245 (0.0353)	
100°F (38°C)	0.252 (0.0363)	
125°F (52°C)	0.260 (0.0375)	
150°F (66°C)	0.267 (0.0385)	
200°F (93°C)	0.282 (0.0406)	
250°F (121°C)	0.315 (0.0454)	

Physical and Operational Properties

Property	Test Value/Rating	Test Method
Service Temperature, CONTINUOUS	-297°F to 257°F -183°C to 125°C	ASTM C411 ¹
UV Resistance	Minimal cracking or color change	ASTM G7
Ozone Resistance	No cracking	ASTM D1171
Water Vapor Permeability, Max	0.03 perm-inch (4.38 x 10 ⁻¹¹ g/Pa.s.m)	ASTM E96
Water Absorption (% by Volume), Max	0.2%	ASTM C209/C1763
Surface Burning/Flammability (through 2" thick)	Pass	UL94 V-0
	25/50	ASTM E84, UL723, CAN/ULC-S102
	Pass	NFPA 90A/90B
	Self-extinguishing	ASTM D635
VOC Emissions	< 0.5 mg/m ³	CDPH Standard Method v1.2
Corrosion of Stainless Steel	Non-corrosive	ASTM C692, DIN 1988
Fungi Resistance	No Growth	ASTM C1338/G21
Mold Resistance	No Growth	UL181
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
California Specification 01350	VOC Emissions, Standard Method v1.2
EPA	Toxic Substances Control Act (TSCA) Persistent, Bioaccumulative, and Toxic (PBT) Chemicals, Per- and Polyfluoralkyl Substances (PFAS)
IECC®	International Energy Conservation Code®
LEED®	U.S. Green Building Council - Leadership in Energy and Environmental Design
MEA #171-04-M	City of New York Material and Acceptance Pipe Insulation
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 Credit: Optimize Energy Performance
Materials & Resources (MR)	Credit: Building Product Disclosure and Optimization - Environmental Product Declarations (EPD), Product Specific Type III Credit: Building Product Disclosure and Optimization - Material Ingredients, verified HPD
Indoor Environmental Quality (EQ)	Credit: Low-Emitting Materials Credit: Indoor Air Quality Assessment Credit: Thermal Comfort Credit: Acoustic Performance
Innovation (IN)	Credit: Occupant Comfort Survey





AEROFLEX White/Gray Unslit EPDM™ Pipe Insulation R-Values

Pipe Size (inches)	IPS (inches)	Wall Thickness (inches)				
		1/2	3/4	1	1-1/2	2
1/4		3.9	6.5	9.8	17.1	25.9
3/8		3.6	5.9	8.9	15.5	23.5
1/2	1/4	3.3	5.4	8.1	14.1	21.5
5/8	3/8	3.1	5.1	7.8	13.3	20.2
3/4		3.0	4.9	7.5	12.7	19.3
7/8	1/2	3.1	5.2	7.2	12.7	18.2
1-1/8	3/4	3.0	4.9	6.8	11.8	16.9
1-3/8	1	3.0	4.9	6.4	11.1	15.9
1-5/8	1-1/4	2.9	4.7	6.1	10.8	15.6
1-7/8	1-1/2	2.8	4.6	5.9	10.4	14.9
2-1/8		3.0	4.5	5.8	10.1	14.5
2-3/8	2		4.4	5.6	9.8	14.0
2-5/8		2.9	4.3	5.5	9.6	13.7
2-7/8	2-1/2		4.2	5.4	9.3	13.3
3-1/8		2.8	4.2	5.4	9.2	13.1
3-1/2	3	2.9		5.2	9.0	12.7
3-5/8			4.1	5.2	8.9	12.6
4-1/8			4.0	5.1	8.7	12.3
4-1/2	4		4.0	5.0	8.5	12.0
5-1/8						
5-1/2	5				8.2	11.5
6-1/8		2.8			8.1	11.3
6-5/8	6	2.8		4.8	8.0	11.1