

## Protape®

EPDM Rubber Tape for Aerocel®  
Closed-Cell Elastomeric Insulations



*Courtesy of Nelson Insulation Company*



# Protape®

## Zero-perm EPDM Rubber Tape for Aerocel® Closed-Cell Elastomeric Insulation

HVAC | Refrigeration | VRF | Chilled Water  
Hot & Cold-Water Piping

Zero-perm, 24-mil thick EPDM rubber tape for vapor-sealing glued seams of Aerocel® closed-cell elastomeric insulation tubes, sheets and rolls. Provides a zero-perm vapor barrier of superior EPDM (Ethylene Propylene Diene Monomer) security over glued insulation seams.

Available in rolls ranging from 1"- 5" wide x 82' long in most Aerocel EPDM closed-cell elastomeric rubber formulations - Black, White/Gray and Ultra Low Perm (ULP®).

### Superior performance

Made from Aerocel EPDM rubber

Expands & contracts with Aerocel insulation

50% elongation - will stretch up to 50% of its length without tearing

Provides a zero-perm vapor barrier over glued insulation seams to prevent water vapor penetration and corrosion under insulation (CUI)\*

### Safe for interior and exterior environments\*\*

Superior fire safety - 25/50 rated and self-extinguishing

Non-corrosive on copper and stainless steel piping when used as a vapor stop

GREENGUARD Gold Certified for low chemical emissions (Low-VOC)

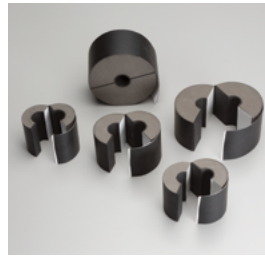
Verified Environmental Product Declarations (EPD's) and Health Product Declarations (HPD's)

No CFC's, HFC's, HCFC's, PBDE's, nitrosamine or fibers

Naturally mold-resistant; no added biocides required

Ultra-low PVC content - less than 1%

### Aeroflex insulation system solutions



#### Aerofix®

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



#### AeroFit™

Pre-fabricated fitting covers made of closed-cell EPDM rubber for fast installation on HVAC and plumbing piping.



#### Aeroflex Adhesives

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



#### Aerocoat™

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



\*Aerocel insulation seams must always be bonded and sealed with an Aerocel adhesive prior to applying Protape; Protape should never be applied over unglued seams.

\*\*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:** EPDM-based (Ethylene Propylene Diene Monomer) self-adhering rubber tape for insulating HVAC, refrigeration, VRF, chilled water and hot/cold water piping systems. Thickness = .024 mil (+/- .004 mil).

**Installation Instructions:** [www.aeroflexusa.com/wp-content/uploads/2021/06/Aeroflex\\_Installation-Guide\\_062521-1.pdf](http://www.aeroflexusa.com/wp-content/uploads/2021/06/Aeroflex_Installation-Guide_062521-1.pdf)

Physical and Operational Properties

Property	Test Value/Rating	Test Method
Service Temperature	-70°F to 257°F -57°C to 125°C	Upper Limit: ASTM C 411 <sup>1</sup>
UV Resistance	Pass	ASTM G 7
Ozone Resistance	No cracking	ASTM D 1171
Water Vapor Permeability	0.00 perm-inch	ASTM E 96
Water Absorption (weight %)	0.2%	ASTM E 209
Flammability, Smoke Density	Class V-O	UL-94
	25/50	ASTM E 84
	Pass	NFPA 90A/90B
	Self-extinguishing	ASTM D 635
Corrosion of copper, stainless	Pass (non-corrosive)	DIN 1988/ASTM C 692
Nitrosamine Contents	Not detected	U.S. FDA CPG No. 7117.11 BSEN 12868

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

Additional Approvals, Certifications & Compliance

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
CA Title 24	California Building Energy Efficiency Standards
CDPH Specification 01350	California Department of Public Health (VOC Emissions)
EPA TSCA Section 6(h)	Toxic Substances Control Act Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
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
MIL-P-15280 (Form S, Form T)	U.S. Department of Defense - Qualified Products List (06/24/2005)
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

