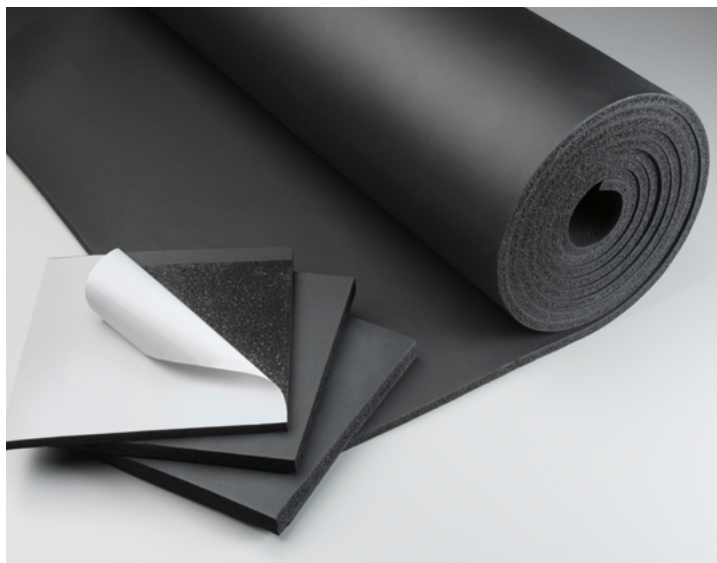




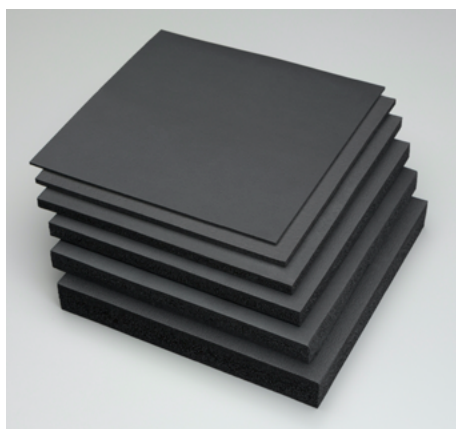
EPDM Sheet & Roll Insulation



Aerocel® ULP®

Ultra-Low Perm Sheet & Roll Insulation

Available with standard and PSA back





Aerocel[®] ULP[®]

Ultra-Low Perm Sheet & Roll Insulation

HVAC | VRF | Refrigeration | Chilled Water
Low Temperature Gases | Limited Cryogenic

Closed-cell elastomeric foam insulation with exceptionally low water vapor permeability and thermal conductivity. Flexible, lightweight alternative to cellular glass.

Ideal for demanding applications – very cold service temperatures in high temperature and humid operating environments.

Easy to install and fabricate on large pipes, fittings, chillers, tanks and other equipment. Most thicknesses available with or without pressure-sensitive adhesive (PSA) back.

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

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

Fast, simple to install

Available with or without pressure sensitive adhesive (PSA) backing

Low thermal conductivity - reduced insulation thicknesses

Flexible elastomeric foam - no breakage or fabrication when compared with rigid cellular glass

No gloves or masks required for installation

No supplemental vapor barrier required for most applications*

Superior environmental stability

Non-polar - does not induce or react with water

Lower continuous service temperature to -320°F

Industry's lowest permeability for a closed-cell elastomeric insulation @ .01 perm-inch!

Non-corrosive on stainless steel piping

Suitable for interior and exterior applications**

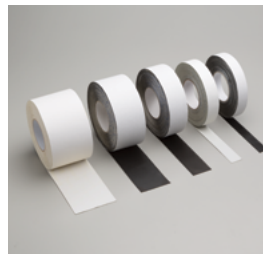


Aeroflex insulation system solutions



AeroFit[™]

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



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 Aerocel insulation. Fast tack and LVOC formulations available.

Safe for indoor environments

Superior fire safety - 25/50 rated (ASTM E84), NFPA 90A/90B and self-extinguishing (ASTM D635) thru 2-inch thick

GREENGUARD Gold Certified for low chemical emissions (VOCs)

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

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

Naturally mold-resistant - no biocides required

Ultra-low PVC content – less than 1%

*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.

**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 HVAC, refrigeration and plumbing piping and equipment.

Installation Instructions: www.aeroflexusa.com/wp-content/uploads/2021/06/Aeroflex_Installation-Guide_062521-1.pdf

Standard Specification: ASTM C534 Type II 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 C518/C177
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) -22°F to 248°F (-30°C to 120°C) with PSA	ASTM C411¹
UV Resistance	Minimal Cracking or color change	ASTM G7
Ozone Resistance	No cracking	ASTM D1171
Water Vapor Permeability, Max	0.01 perm-inch (1.45 x 10⁻¹¹g/Pa.s.m)	ASTM E96
Water Absorption (% by Volume), Max	0.2%	ASTM C209
Fire Safety Characteristics thru 2" thickness	Class V-O	UL 94
	25/50	ASTM E84
	Pass	NFPA 90A/90B
	Self-extinguishing	ASTM D635
Corrosion of Stainless Steel	Non-corrosive	ASTM C692, DIN 1988
Fungi Resistance	No Growth	ASTM C1318/G21
Mold Resistance	No Growth	UL181 Section 13
Flexibility	Pass	ASTM C534
Air Erosion	Pass	UL181 Section 18

¹ AEROCEL 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
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-O4-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

**Aerocel® ULP® Ultra-Low Perm R-Values (Sheet)**

Wall Thickness (inches)	1/8	1/4	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-1/2
R-value	0.5	1.0	1.6	2.1	2.6	3.1	4.1	5.2	6.1	8.0	10.0

Aerocel® ULP® Ultra-Low Perm R-Values (Roll)

Wall Thickness (inches)	1/8	1/4	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-1/2
R-value	0.5	1.0	1.6	2.1	2.6	3.1	4.1	5.2	6.1	8.0	10.0