

ZERO-PERM® VAPOR BARRIER ACRYLIC TAPES



Zero-Perm® vapor barrier acrylic tapes are required for use with **Polyguard Products Zero-Perm vapor barrier membrane** to seal butt joints and longitudinal joints and for use on valves and fittings. Made from the same material as the **Zero-Perm** vapor barrier, the tapes maintain an absolute “zero perm” barrier that provides maximum protection for all types of insulations used in below ambient, sub-freezing and cryogenic applications on duct, pipe, or vessel systems

- Meets ASTM E84 25/50 Smoke and Flame requirements.
- Meets ASTM 1136-12, Type IX
- Puncture and tear resistance
- Zero permeability
- Paper-free
- Mold resistant
- Available in silver or white, with a liner or self-wound

Description

Zero-Perm tapes use a 3-ply composite membrane consisting of two plies of tough polymer film sandwiching one ply of 1.0 mil Aluminum Foil. The tapes are coated with a high quality, cold-weather resistant acrylic adhesive providing superior adhesive capability over a wide temperature range.

Uses

Zero-Perm vapor tapes are used as part of the **Zero-Perm** vapor barrier system on cold pipe applications either between layers of insulation on sub-freezing projects like LNG piping, or as the outer vapor-barrier jacket on ammonia, brine or glycol systems under mechanical jacketing, either metal or PVC. **Zero-Perm** can also be used on chilled water systems replacing ASJ and PVDC jacketing either left exposed or under a protective metal or PVC jacket.

Installation

Two types of **Zero-Perm® tapes** are available to complete the installation in the field. Both use a high quality, acrylic adhesive with excellent cold weather performance. **Zero-Perm A** has a kraft release liner and is typically available in 2” and 3” width rolls for sealing longitudinal and circumferential laps. **Zero-Perm Self-Wound** has no liner, is used on valves and fittings and comes in 1”, 2” and 3” widths.

Packaging

- **Zero-Perm A (acrylic adhesive with liner) (rolls)- 2”, 3”, 23.5”, 35.5” x 150’**
- **Zero-Perm Self-wound Tape (acrylic adhesive) (rolls)- 1”, 2”, 3” x 400’**

Store in cool dry place. Recommended shelf-life is one year from date of purchase.

P.O. Box 755
Ennis, TX 75120
PH: (214) 515-5000
FX: (972) 875-9425

This information is based on our best knowledge, but
POLYGUARD cannot guarantee the results to be obtained.



Polyguard is ISO 9001 certified since 1996.

Zero-Perm® Tapes-Technical Properties and Testing

Physical Property	Test Method	Zero-Perm A	Zero-Perm SW
Total Product Thickness(w/o liner)	Micrometer	4.7 mils	3.7 mils
Thickness Carrier	Micrometer	3.4 mils	2.4 mils
Thickness Adhesive	Micrometer	1.3 mils	1.3 mils
Tensile Strength	PSTC 131	> 30 lbs/in	> 30lbs/in
Elongation	PSTC 131	64%	64%
Peel Adhesion	PSTC 101	39 oz/in	39oz/in
Minimum Application Temperature		10°F	10°F
Maximum Continuous Temp.		200°F	200°F

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