

Vaporguard®

Vaporguard® is a 3-ply laminate with an aluminum core surrounded by two layers of multi-axially oriented, high density polyethylene. It is specifically engineered to provide high strength and durability in a lightweight material.

Physical Properties and Typical Values

Property	ASTM Test Method	U.S. Value	Metric Value
Weight	D-3776	82 LB/1000 FT ²	40 KG/100 M ²
3" Tensile Strength	D-882	160 LBF	712 N
Puncture Strength	D-4833	45 LBF	200 N
PPT Resistance	D-2582	45 LBF	200 N
Dart Impact Strength	D-1709	3.0 LBS	1730 g
Cold Impact Strength	D-1790	-50°F	-45°C
Permeance	E-96	0.000 Grain/Hr •Ft ² •in.Hg	0.0 NG/(PA•S•M ²)

Features

- ✓ Multiple polyethylene layers and aluminum layer provide extremely low permeability and resist punctures and tears.
- ✓ UV stabilization protects the material from degradation during extended exposure to sunlight.
- ✓ Cold-crack resistance eliminates failures in extremely cold temperatures.
- ✓ Chemically resistant to withstand exposure without significant deterioration.
- ✓ Aluminum core provides extremely low permeability for minimal moisture transmission.
- ✓ Flexibility and light weight allow for easy handling and quick installation.
- ✓ Custom fabrication is available to meet your exact specifications.
- ✓ Class B, ASTM E-1745-97 Standard Specification for Water Vapor Retarders Used in Contact With Soil or Granular Fill Under Concrete Slabs.

Suggested Applications

- ✓ Architectural vapor retarder for underslab, walls & ceilings and in roofing systems. Ideal for cold storage and high moisture areas.
- ✓ Floor covers, dust partitions and cleanroom enclosures.
- ✓ Temporary walls, plant dividers, building enclosures and containment tents.
- ✓ Soil covers to control leachate for stockpiles and landfills.
- ✓ Erosion control and slope protection covers.

Outdoor Exposure

Under normal continuous exposure the average life expectancy ranges from 18 to 30 months.

Ordering Information

AVAILABLE COLORS:

Black

SIZES:

Standard rolls from 4' x 100' to 40' x 100' in increments of 4' widths are available for immediate shipment. Standard length and width tolerances are $\pm 1\%$ (minimum 2")

Custom sizes up to 100' x 120' and custom fabrication are available to meet your exact specifications

USABLE TEMPERATURE RANGE:

Minimum: - 50 °F -45 °C

Maximum: 170 °F 77 °C

The information provided herein is based upon data believed to be reliable. All testing is performed in accordance with ASTM standards and procedures. All values are typical and nominal and do not represent either minimum or maximum performance of the product. Although the information is accurate to the best of our knowledge and belief, no representation of warranty or guarantee is made as to the suitability or completeness of such information. Likewise, no representation of warranty or guarantee, expressed or implied, or merchantability, fitness or otherwise, is made as to product application for a particular use.



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