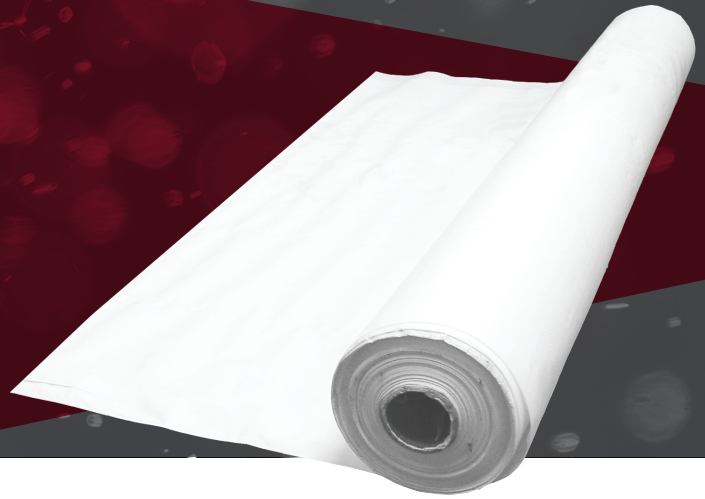




**NASH INTERLACED  
VAPOR BARRIERS**

FORMULATED BY VIPER®

# 90-MIL VAPOR BARRIER



## 1 PRODUCT NAME

**PRODUCT NAME:** Nash Interlaced 90-mil  
Crawl Space Vapor Barrier

## 2 PRODUCT DESCRIPTION

### 2.1 BASIC USE

Interlaced 90-mil is a high performance crawl space vapor barrier designed to prevent moisture migration from the soil into the crawl space. Interlaced 90-mil helps guard against mold, mildew, allergens, fungus, radon gas, methane gas, heat loss due to damp insulation, wood rot and overall degradation of the crawl space.

### 2.2 COMPOSITION & MATERIALS

Interlaced 90-mil is a white, triple-ply, extrusion coated, virgin polyethylene membrane laminated to a high-density flexible foam core and metalized film. Interlaced 90-mil is manufactured using woven high-density fibers yielding high strength-to-weight ratio, tensile strength and puncture resistance.

### 2.3 SIZE

Standard Sizes: 4' x 125', 6' x 125'

### 2.4 WEIGHT

Approximately 55 lbs per MSF

## 3 TECHNICAL DATA

### 3.1 APPLICABLE STANDARDS

**ASTM E 1745** Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs

**ASTM E 154** Standard Test Methods for Water Vapor Retarders used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover

**ASTM D 1709** Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method

**ASTM D 5602** Standard Test Methods for Static Puncture Resistance of Roofing/Under-Slab Membrane Specimens

**ASTM E 96** Standard Test Methods for Water Vapor Transmission of Materials

**ASTM D 882** Standard Test Method for Tensile Properties of Thin Plastic Sheeting

**ASTM D 751** Standard Test Method for Coated Fabrics

**ASTM E 1643** Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs

**ASTM D 6241** Standard Test Method for Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe

### 3.2 ENVIRONMENTAL CONSIDERATIONS

Interlaced 90-mil can aid in reducing soil gas and poisons, such as methane and radon.

### 3.3 PHYSICAL PROPERTIES

Interlaced 90-mil exceeds all **ASTM E 1745** Class A, B and C requirements for under-slab vapor retarders.

## 4 INSTALLATION

### 4.1 PLACEMENT

If sump pump is present or is to be installed, slightly slope grade in the direction of the sump pit to allow for proper drainage. Tamp or roll subbase or granular base.

Unroll Interlaced 90-mil in correlation with the longest dimension of the crawl space area.

Install Interlaced 90-mil by means of Viper Double Bond Tape, mechanical fasteners, termination bar and/or high-grade construction adhesive to the upper portion of the block/concrete wall. Leave at least a three-inch gap from the sill to the top of the Interlaced 90-mil for future termite inspection. Seal top edge of Interlaced 90-mil with urethane caulk.

Holes or openings through Interlaced 90-mil should be effectively sealed with all-weather Viper Vapor Tape, Viper VaporPatch and/or Viper VaporCheck Mastic to maintain the integrity of the vapor barrier. Overlap joints a minimum of six inches. Seal overlap together with all-weather Viper Vapor Tape.

### 4.2 PROTECTION

Proper care should be taken when installing Interlaced 90-mil. Carelessness during installation can damage even the most puncture resistant vapor retarders.

FOR MORE INFORMATION, CONTACT US TODAY  
CALL: (800) 288-0831 | EMAIL: [info@nashdistribution.com](mailto:info@nashdistribution.com)



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Nash Interlaced 90-mil will help guard against possible punctures and tears present from rigorous construction traffic.

Avoid driving stakes through Interlaced 90-mil. If this cannot be avoided, each individual hole must be repaired.

These are very general installation instructions. All installation instructions on architectural or structural drawings should be reviewed and followed. Detailed installation instructions can be obtained by contacting Nash Distribution.

PROPERTIES	TEST METHOD	RESULTS
TEST PROCEDURE - INDEPENDENT TEST FACILITY	APPLICABLE STANDARDS	IP UNITS
THICKNESS (nominal)	N/A	90-MIL
WEIGHT (per msf)	N/A	55 LBS
CLASSIFICATION	ASTM E 1745	CLASS A, B, C
TENSILE STRENGTH (new material)	ASTM E 154, SEC. 9	69 LBF/IN (MD) 68 LBF/IN (TD)
TENSILE STRENGTH (after soaking)	ASTM E 154, SEC. 9	69 LBF/IN (MD) 73 LBF/IN (TD)
TEAR STRENGTH	ASTM D 751 TONGUE	35 LBS. (WARP) 30 LBS. (WEFT)
GRAB TENSILE*	ASTM D 751	117 LBF (directional avg.)
BURSTING STRENGTH	ASTM D 751 MULLEN	210 LBS
PUNCTURE RESISTANCE (maximum weight sustained)	ASTM D 1709	8,825 GRAMS
PUNCTURE RESISTANCE	ASTM D 5602	60 LBS
CBR PUNCTURE	ASTM D 6241	255 LBF
MAXIMUM USE TEMPERATURE MINIMUM USE TEMPERATURE	N/A	180° F -70° F
WATER VAPOR PERMEANCE WATER VAPOR TRANSMISSION RATE	ASTM E 96 / 154 SEC. 7	.0095 PERMS .0035 GRAINS/FT <sup>2</sup> *HR

\*TESTS ARE AN AVERAGE OF MACHINES AND TRANSVERSE DIRECTIONS

### NOTE:

TO THE BEST OF OUR KNOWLEDGE, THE SPECIFICATION CHART LISTS TYPICAL PROPERTY VALUES AND ARE INTENDED AS GUIDES ONLY, NOT AS SPECIFICATION LIMITS. ISI BUILDING PRODUCTS MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, NO GUARANTEE OF SATISFACTORY RESULTS FROM RELIANCE UPON CONTAINED INFORMATION OR RECOMMENDATIONS AND DISCLAIMS ALL LIABILITY FOR RESULTING LOSS OR DAMAGE.

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