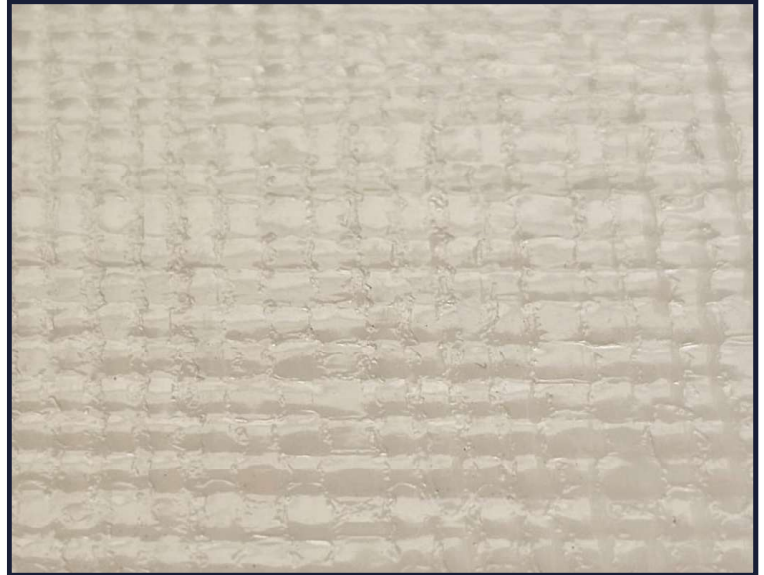


# Cross-Woven Polyethylene Vapor Barrier



## Technical Data Sheet



### 1. Product Description

The Liner Guys Cross-Woven Polyethylene Vapor Barrier is a high-performance, multi-ply vapor retarder designed to prevent moisture migration from the soil into crawl spaces and other enclosed areas. Its robust construction helps protect against common issues such as mold, mildew, allergens, fungus, heat loss due to damp insulation, wood rot, and overall degradation of the encapsulated space. This product also serves as a barrier against radon and methane gases.

### 2. Product Name

The Liner Guys Cross-Woven Crawl Space Vapor Barrier

### 3. Manufacturer

The Liner Guys  
contact@theliner guys.com  
www.theliner guys.com  
(305) 842-9079

### 4. Material Composition

The Liner Guys Cross-Woven Polyethylene Vapor Barrier is a multi-ply polyethylene laminate. The material is flame retardant. It is a white, triple-ply, extrusion coated, virgin polyethylene membrane manufactured using woven high-density fibers yielding exceptional strength-to-weight ratio, tensile strength, and puncture resistance.

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### 5. Standard Thicknesses

7-mil (Nominal)

12-mil (Nominal)

16-mil (Nominal)

20-mil (Nominal)

Custom thicknesses available upon request.

### 6. Standard Roll Sizes

4' x 200' (800 SF)

6' x 100' (600 SF)

8' x 100' (800 SF)

12' x 100' (1,200 SF) - Rolls of 12' x 100' are typically folded on 6' cores for ease of handling.

Custom roll sizes available upon request.

### 7. Standard Colors

White/White

Custom colors available and can be quoted per requirement.

### 8. Basic Use

This vapor barrier is primarily used to prevent moisture migration from the soil into crawl spaces. It provides protection against mold, mildew, allergens, fungus, radon gas, methane gas, heat loss due to damp insulation, and wood rot.

### 9. Key Features

Cross-Woven for enhanced strength and durability.

High strength-to-weight ratio.

Exceptional tensile strength.

High puncture resistance.

Odor-Free.

Limited Lifetime Warranty.



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### 10. Applicable Standards & Test Methods

| Property                          | Standard/Test Method  | 7-mil Result                             | 12-mil Result                              | 16-mil Result                              | 20-mil Result                              |
|-----------------------------------|-----------------------|------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Thickness (Nominal)               | N/A                   | 7-mil                                    | 12-mil                                     | 16-mil                                     | 20-mil max                                 |
| Weight (Approximately)            | N/A                   | 22 lbs/MSF (extrap.)                     | 7.9 oz./yd <sup>2</sup> (38 lbs/MSF)       | 55 lbs/MSF                                 | 14 oz./yd <sup>2</sup> (62 lbs/MSF)        |
| Classification                    | ASTM E1745            | Class A                                  | Class A                                    | Class A                                    | Class A                                    |
| Minimum Use Temperature           | N/A                   | -70 F                                    | -70 F                                      | -70 F                                      | -70 F                                      |
| Maximum Use Temperature           | N/A                   | 180 F                                    | 180 F                                      | 180 F                                      | 180 F                                      |
| Flame Spread/Smoke Developed      | ASTM E84-21           | Class A                                  | Class A                                    | Class A                                    | Class A                                    |
| 1" Tensile Strength               | ASTM D7003            | 60 lbf/in (extrap.)                      | 76 lbf/in                                  | N/A                                        | 90 lbf/in                                  |
| Tensile Strength (After Soaking)  | ASTM E1745/ASTM E154  | Class A (91 lbf/in [MD], 91 lbf/in [TD]) | Class A (157 lbf/in [MD], 132 lbf/in [TD]) | Class A (165 lbf/in (MD), 163 lbf/in (TD)) | Class A (209 lbf/in [MD], 179 lbf/in [TD]) |
| Tensile Elongation at Scrim Break | ASTM D7003            | N/A                                      | 14%                                        | N/A                                        | 16%                                        |
| Tensile Elongation at Film Break  | ASTM D7003            | N/A                                      | 578%                                       | N/A                                        | 760%                                       |
| Grab Tensile                      | ASTM D7004            | N/A                                      | 100 lbf                                    | N/A                                        | 140 lbf                                    |
| Puncture Resistance               | ASTM E1745/ASTM D1709 | Class A (> 2,200 grams)                  | Class A (> 2,400 grams)                    | Class A (> 2,600 grams)                    | Class A (> 3,000 grams)                    |
| CBR Puncture Resistance           | ASTM D6241            | > 520 lbf                                | 276 lbf (> 600 lbf)                        | > 750 lbf                                  | > 970 lbf                                  |
| Tongue Tear                       | ASTM D5884            | N/A                                      | 54 lbf                                     | N/A                                        | 63 lbf                                     |
| Trapezoid Tear                    | ASTM D4533            | N/A                                      | 59 lbf                                     | N/A                                        | 85 lbf                                     |
| Mullen Burst                      | ASTM D751             | N/A                                      | 107 psi                                    | N/A                                        | 170 psi                                    |
| Water Vapor Permeance             | ASTM E1745/ASTM E96   | Class A / Class 1 (< 0.1 perms)          | Class A / Class 1 (< 0.1 perms)            | Class A / CLASS 1 (<0.1 perms)             | Class A / Class 1 (< 0.1 perms)            |
| Perm Rating                       | ASTM E96 Procedure B  | < 0.1 perms                              | < 0.1 perms                                | < 0.1 perms                                | 0.019 Perms                                |

Note: Some values are nominal and may vary. Tests are an average of MD & TD directions unless otherwise specified. For Trapezoid Tear, tests are an average of diagonal directions.

### 11. Installation Instructions

Install The Liner Guys Cross-Woven Polyethylene Vapor Barrier using appropriate sealing methods such as tape, mechanical fasteners, termination bars, 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 vapor barrier for future termite inspection.

\*Seal the top edge with urethane caulk.

\*Seal any holes or openings with vapor tape, vapor patch, and/or vapor mastic to maintain integrity.

\*Overlap joints a minimum of twelve inches and seal overlaps together with vapor tape.

These are general instructions. Architectural and structural drawings should be reviewed and followed. Detailed installation instructions can be obtained from The Liner Guys website.

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### **12. Warranty**

Limited Lifetime Warranty.

### **13. Certifications & Compliance**

This product is compliant with the following ASTM standards: ASTM E1745 , ASTM E84-21 , ASTM E154 , ASTM D1709 , ASTM D6241 , and ASTM E96. It is also Odor-Free.

### **14. Disclaimer**

To the best of our knowledge, the specification chart lists typical property values and are intended as guides only, not as specification limits. The manufacturer 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.