DuPont™ Tyvek® HomeWrap®

Sturdy Housewrap Engineered for Energy Efficiency

OVERVIEW

Description

DuPont™ Tyvek® HomeWrap® is the original house wrap, leveraging advanced material science to keep air and water out while allowing water vapor to escape. This contributes to enhanced building durability by protecting homes from damaging wind and rain that can penetrate exterior cladding.

Tyvek® HomeWrap® is uniquely engineered by spinning extremely fine high-density polyethylene (HDPE) fibers that are fused together to form a strong, uniform web. This robust structure creates millions of tiny pores that resist bulk water and air penetration while allowing moisture vapor to pass through.

Additionally, **Tyvek® HomeWrap®** can reduce home energy bills by controlling air flow and water intrusion, thereby improving insulation performance and HVAC efficiency. It is designed to keep homes cool in the summer, warm in the winter, and dry all year round.



Features and Benefits

- **Ease of Installation:** Translucent, giving builders a convenient, clear view of studs and the sheathing surface during installation. Durable, with a polymer will not rust or rot, offering superior tear resistance compared to other leading non-woven, nonperforated wraps. Breathable, with a water vapor transmission rating of 5 perm minimum. Able to cling to the house with its unique surface during installation. Simple and quiet to install, helping make a quieter home while under construction. Compatible with standard adhesives and sealants.
- **Temperature and UV Resistance:** Withstands up to four months (120 days) of UV exposure. Maximum in-service temperature of 180° F.
- **Air and Water Barrier Performance:** Unique non-woven structure is breathable, allowing moisture vapor to pass through, promoting drying in wall systems, and helping to prevent mold and water damage. Stops air movement through walls, enabling insulation to perform closer to its full R-value, thereby contributing to a more energy-efficient home. Meets ASTM E2556, Type II standards for vapor permeable flexible sheet water-resistive barriers and type I air barrier when tested in accordance with ASTM E1677. Offers >90% drainage efficiency when tested in accordance with ASTM E2273.

Sustainable Solutions

- Tyvek® HomeWrap® may contribute toward LEED® points in the areas of Energy and Atmosphere (EA): Optimizing the Building Envelope and Indoor Environmental Air Quality (EQ): Construction IAQ Management Plan and Low Emitting Materials. In

Warranty

- Tyvek® HomeWrap® is backed by a 10-Year limited warranty. For additional warranty information please visit building.dupont.com or contact your DuPont representative.

Complete System

- Tyvek® HomeWrap® can be integrated with DuPont Self-Adhered Flashing Products and DuPont™ Tyvek® Fluid Applied Products to offer seamless protection for wall systems that require mechanically fastened and fluid applied air and water barriers.

addition, the use of a continuous air barrier is a prerequisite for LEED® applications requiring compliance with ASHRAE 90.1.

- By helping to effectively seal the building envelope, Tyvek® HomeWrap® helps to reduce the amount of energy required for heating and cooling.
- We recognize our stakeholders' need for product transparency information and are committed to providing embodied carbon and other Life Cycle Assessment (LCA)-based information through Environmental Product Declarations (EPDs) for our products.You can find the Tyvek® EPD under "Codes and Certifications" here.

Standard Sizes

Standard Sizes for Tyvek® HomeWrap®

Unit	Width	Length
Roll	3 ft.	100 ft.
Roll	3 ft.	165 ft.
Roll	5 ft.	200 ft.
Roll	9 ft.	100 ft.
Roll	9 ft.	150 ft.
Roll	10 ft.	100 ft.
Roll	10 ft.	150 ft.

TESTING AND CODE COMPLIANCE

Tyvek® HomeWrap™ exhibits the properties and characteristics indicated in the table below when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact your local DuPont™ Tyvek Specialist before writing specifications around this product. Product properties are as follows:

TEST METHOD	TEST TITLE	PROPERTY	RESULTS
AIR			
ASTM E1677	Standard Specification for Air Barrier (AB) Material or Assemblies for Low-Rise Framed Building Walls	Air Penetration Resistance	Type 1 cfm/ft^2 @ 1.57 psf
ASTM E2178	Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials	Air Penetration Resistance	< .004 cfm/ft^2 @ 1.57 psf
TAPPI T460	Air resistance of paper (Gurley method)	Air Penetration Resistance	1200 sec/100cc
FIRE			
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials	Surface Burning Characteristics Class A Index	Flame Spread = 0 Some Detected = 10
STRENGTH			
ASTM D882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting	Breaking Strength	30/30 lbs/in
ASTM D1117	Standard Guide for Evaluating Nonwoven Fabrics	Tear Resistance	8/6 lbs
TAPPI T-410	Grammage of Paper and Paperboard (Weight per Unit Area)	Basis Weight	1.8 oz/yd^2
WATER			
AATCC 127	Test Method for Water Resistance: Hydrostatic Pressure	Water Penetration Resistance	250 cm
ASTM E2273	Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies	Drainage Efficiency ICC-ES AC 24 Section 6.11 ICC-ES AC 235 Section 4.5	>90% Pass Pass
ASTM E2556	Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment	Vapor Permeability (Type II Compliant)	Pass

ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Water Vapor Transmission Method A	400 g/m^2-24 hrs 56 perms
ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Water Vapor Transmission Method B	370 g/m^2-24 hrs 54 perms

For more information, visit us at
building.dupont.com
or call us at 1-833-338-7668

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Issue Date: 9/22/2025

Print Date: 1/27/2026