

DuPont™ Tyvek® HomeWrap®

Sturdy House Wrap Engineered for Energy Efficiency



FEATURES/BENEFITS

Description

DuPont™ Tyvek® HomeWrap® is the original house wrap, incorporating unique material science that helps keep air and water out, while letting water vapor escape. As a result, it can contribute to improved building durability by helping to protect homes against damaging wind and rain that can penetrate the exterior cladding.

Tyvek® HomeWrap® can also reduce home energy bills by controlling air flow and water intrusion, which helps insulation work better, allowing the HVAC system to work more efficiently. It's a house wrap engineered to keep homes cool in the summer, warm in the winter, and dry all year round.

Available Sizes

Tyvek® HomeWrap® is available in 9- and 10-foot width rolls for use behind a variety of claddings. This width minimizes seams and offers the potential for reduction in labor costs, compared to narrower rolls.

Air and Water Barrier Performance

The unique nonwoven structure of Tyvek® HomeWrap® makes it breathable, allowing moisture vapor to pass through. This helps promote drying in wall systems, to help prevent mold and water damage. In addition, Tyvek® HomeWrap® stops air movement through the walls, helping insulation perform closer to its full R-value, to provide a more energy-efficient home.

Ease of Installation

Tyvek® HomeWrap® is easy to install. It is pliable, so it wraps around corners with ease. It is also light weight, easier to handle, and faster to install than the average house wrap. In addition, because it's flexible, Tyvek® HomeWrap® easily interfaces at joints, and over architectural elements.

High Performance Durability

DuPont™ Tyvek® HomeWrap® is a uniquely engineered product made by spinning extremely fine high-density polyethylene (HDPE) fibers that are fused together to form a strong, uniform web. The tough structure of Tyvek® is engineered to create millions of extremely small pores that resist bulk water and air penetration, while allowing moisture vapor to pass through. Tyvek® HomeWrap® can also withstand up to four months (120 days) of UV exposure.

Complete System

Tyvek® HomeWrap® can be integrated with DuPont self-adhered flashing products and Tyvek® Fluid Applied products to offer seamless protection for wall systems that require mechanically fastened and fluid applied air and water barriers.

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 addition, the use of a continuous air barrier is a prerequisite for LEED® applications requiring compliance with ASHRAE 90.1-2010.

By helping to effectively seal the building envelope, Tyvek® HomeWrap® helps to reduce the amount of energy required for heating and cooling.

PROPERTIES

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	Property	Typical Value	Units
ASTM E2178 Gurley Hill (TAPPI T-460) ASTM E1677	Air Penetration Resistance	< .004 1200 Type 1	cfm/ft²@1.57 psf sec/100cc -
ASTM E96-05	Water Vapor Transmission	Method A 400 56	g/m²-24 hrs perms
ASTM E96-05	Water Vapor Transmission	Method B 370 54	g/m²-24 hrs perms
ATTCC 127	Water Penetration Resistance	250	cm
TAPPI T-410	Basis Weight	1.8	oz/yd²
ASTM D882	Breaking Strength	30/30	lbs/in
ASTM D1117	Tear Resistance (Trapezoid)	8/6	lbs
ASTM E84 Flame Spread Index Smoke Developed Index	Surface Burning Characteristics	15 15	Class A Class A

Test results shown represent roll averages. Individual results may vary either above or below averages due to normal manufacturing variations, while continuing to meet product specifications.



For more information visit us at
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DuPont™ FlexWrap™

Extendable, Conformable, Self-Adhered Butyl Flashing for Windows, Doors and Other Wall Penetrations



FEATURES/BENEFITS

Description

DuPont™ FlexWrap™ is a premium performance, extendable self-adhered flashing material that can be applied over a wide range of building substances, including non-nailable sheathing materials like PS foam board, fiberboard, concrete masonry unit (CMU) and other such materials. Unlike competitors, FlexWrap™ does not require the use of mechanical fasteners in the flexed corner areas.

FlexWrap™ also flashes round-top or custom-shaped windows in a seamless manner, eliminating the need to cut and place individual pieces of conventional flashing on an arched opening.

Ease of Use

- Adheres to most common building materials
- Packaged in ready-to-use 6", 9" x 75' rolls or 9" x 15' rolls"
- Can be installed at external temperatures as low as -4°C (25°F) as long as the surface is clean and free from frost and ice.

Air and Water Barrier Performance

- FlexWrap™ integrates easily with all DuPont air and water barriers, to help seal the building envelope for improved durability and energy efficiency.
- Helps to facilitate the creation of airtight and water tight seals around windows, door sills, chimney breasts, pipe penetrations, and any custom shapes, which can help prevent water damage, such as wood rot and corrosion, as well as mold.
- Meets the AAMA 711-13 material standard at the highest classification levels: Class A (no primer) and Level 3 Thermal Exposure (80°C / 176°F for 7 days)
- Meets and Exceeds ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference: no leakage at 300 Pa (equivalent to 50 mph windload), even after thermal aging (0-120°F)
- FlexWrap™ is backed by a 10-year limited warranty.

High Performance Durability

- Extendable flashing constructed with a durable, microcreped DuPont™ top-sheet, a premium butyl adhesive layer, and a specially designed release liner
- Designed to withstand up to 270 days of UV exposure
- 100% butyl adhesive performs through extreme temperatures.
- Does not contain asphaltic/bitumen adhesive materials which many window manufacturers prohibit due to adverse material reactions, such as black staining, oozing, and deformation over time, particularly with vinyl flanges.

Complete System

For optimal protection on all your building projects, use DuPont™ FlexWrap™ with the complete line of DuPont building envelope systems products.

PROPERTIES

Read all instructions and (Material) Safety Data Sheet ((M)SDS). Please contact DuPont™ at 1-800-448-9835 when additional guidance is required for writing specifications that include this product.

Installed System Water Intrusion Testing (Tested with no exterior cladding). NO leakage at 720 Pa for DuPont™ FlexWrap™ products before thermal aging and after thermal aging (0–180°F)

TABLE 1: Performance Testing for FlexWrap

Test Method	Property	Property
ASTM E-331 ASTM E-331 after thermal aging (0-120°F)	Installed System Water Intrusion Testing	NO leakage at 300 Pa NO leakage at 300 Pa
ASTM E-96	Water Vapor Permeability	< 1 perm (< 60 ng/Pa.sec.m ²)
-	Application Temperature	Best when installed above 25°F*
AAMA 711-13	Material Standard for Self-Adhering Flashing Surrounding Exterior Wall Fenestration	Class A (no primer) Level 3 Thermal Exposure (80°C/176°F for 7 days)

* Consult DuPont for primer recommendations



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