DuPont™ Tyvek® CommercialWrap®

High Performance Water-Resistive and Air Barrier (WRB) and Engineered to Stand Up to the Commercial Job Site

OVERVIEW

Description

Engineered to provide excellent performance as an air and water barrier, **DuPont™ Tyvek® CommercialWrap®** delivers the added strength and durability needed in commercial construction. It provides an ideal balance of air and moisture management resulting in more durable and energy efficient structures.

Tyvek® CommercialWrap® is made from 100% flash spunbonded high density polyethylene fibers which have been fused together by heat and pressure, without binders or fillers, into a tough durable sheet structure. Additives have been incorporated into the polyethylene to provide ultraviolet light resistance.



Features and Benefits

- **High Performance Durability:** Tough and tear-resistant, ensuring durability and the ability to withstand high wind loads, making it ideal for commercial construction site conditions
- **Temperature and UV Resistance:** Withstands up to nine months (270 days) of UV exposure. Maximum in-service temperature of 180° F.
- **Air and Water Barrier Performance:** Offers an ideal combination of air and water holdout with vapor permeability. Exceeds ABAA, ASHRAE 90.1, and IECC air leakage requirements (ASTM E2357). Water infiltration resistance up to 15psf when tested in accordance with ASTM E331. Offers >90% drainage efficiency when tested in accordance with ASTM E2273. Meets ASTM E2556, Type II standards for vapor permeable flexible sheet water-resistive barriers. Shields insulation from drafts and minimizes air infiltration and exfiltration, enhancing HVAC efficiency. Lowers energy consumption for heating and cooling, reducing costs. Prevents damage to wood, metal, and mold growth. Keeps insulation dry, maintaining its installed R-value.
- **Vapor Permeability:** Allows water vapor to escape to help improve indoor air quality. Helps prevent mold.

Sustainable Solutions

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

Complete System

- Tyvek® CommercialWrap® 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.

Warranty

- Tyvek® CommercialWrap® is backed by a 10-Year and 15-Year limited warranty. For additional warranty information please visit building.dupont.com or contact your DuPont representative.

- 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® CommercialWrap®

Unit	Width	Length
Roll	5 ft.	200 ft.
Roll	10 ft.	125 ft.

TESTING AND CODE COMPLIANCE

Tyvek® CommercialWrap® 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	.001 cfm/ft^2 @ 1.57 psf
ASTM E2357	Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies	Air Penetration Resistance	<0.01 cfm/ft^2 @ 1.57 psf
ASTM E283	Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen	Wall Assembly Air Penetration Resistance	<0.01 cfm/ft^2 @ 1.57 psf
TAPPI T460	Air resistance of paper (Gurley method)	Air Penetration Resistance	>1500 sec/100cc
FIRE			
NFPA 285	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components	Flame Propagation/Multiple Assemblies	Pass
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials	Surface Burning Characteristics Class A Index	Flame Spread = 15 Smoke Developed = 25
ASTM E1354	Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter	Peak Heat Release Total Heat Release Effective Heat of Combustion	<150 kW/m^2 <20 MJ/m^2 <18 MJ/kg
STRENGTH			
ASTM D882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting	Breaking Strength	38/35 lbs/in
ASTM D1117	Standard Guide for Evaluating Nonwoven Fabrics	Tear Resistance	12/10 lbs
TAPPI T-410	Grammage of Paper and Paperboard (Weight per Unit Area)	Basis Weight	130 (2.7) gms/m^2 (oz/yd^2)
WATER			
AATCC 127	Test Method for Water Resistance: Hydrostatic Pressure	Water Penetration Resistance	280 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 E331	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference	Wall Assembly Water Penetration Resistance	No leakage Tested to 15 psf
ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Water Vapor Transmission Method A	163 g/m^2-24 hrs 23 perms
ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Water Vapor Transmission Method B	200 g/m^2-24 hrs 28 perms

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

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