DuPont™ Tyvek® ThermaWrap® LE

Breathable, Low-Emissivity Water-Resistive and Air Barrier (WRB) for Enhanced Energy Efficiency

OVERVIEW

Description

DuPont™ ThermaWrap® LE is a non-woven, non-perforated, spun-bonded polyethylene sheet air and water-resistive barrier made with a metallized, low-emission (low-e) surface that reflects solar radiation away from the building.

In cold weather, this helps prevent radiant heat loss from within the structure. In warmer weather, **Tyvek® ThermaWrap® LE** turns the tables, reflecting warm air out and away from the structure, to help improve air-conditioning efficiency. In all seasons, that can help make both residential homes and commercial buildings more comfortable, more energy efficient, and less costly to operate.

Like all Tyvek® air and water-resistive barriers (WRB's), **Tyvek® ThermaWrap® LE** helps prevent water accumulation inside the wall system by allowing moisture vapor to escape to the outside. In turn, this helps reduce the risk of mold and wood rot, which is important in all climates. With its combination of air and water holdout, vapor permeability, and a low-e surface, **Tyvek® ThermaWrap® LE** provides the best of both worlds for managing energy efficiency.



Features and Benefits

- **Ease of Installation:** Pliable, wraps around corners with ease. Lightweight, easy to handle, and faster to install than the average house wrap. Flexible, easily interfaces at joints and over architectural elements. Minimizes seams and helps reduce labor cost.
- **High Performance Durability:** Originally designed to enhance thermal performance in the cold climates of northern Europe, Tyvek® ThermaWrap® LE is also highly effective at reducing heat gain in hot weather. High-perm, reflective membrane uses a metallized face to reflect heat away from wall surfaces, increasing comfort and reducing energy costs. Provides optimal control of condensation in walls, minimizing the risk of mold, mildew, and wood rot.
- **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:** Offers multiple layers of thermal and moisture protection. Reflects solar radiation and reduces emissivity to manage radiant heat flow. Allows indoor water vapor to diffuse out of wall systems. Reduces infiltration and exfiltration with an effective air barrier. Keeps the wall dry by providing a barrier to bulk water. 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.

Sustainable Solutions

Warranty

- Tyvek® ThermaWrap® LE 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® ThermaWrap® LE along with DuPont Self-Adhered Flashing Products and other DuPont Building Envelope Solutions Products provide integrated air and water management solutions that help meet or exceed building and energy code requirements without sacrificing building durability.

- Tyvek® ThermaWrap® LE may contribute toward LEED® points in the areas of Energy and Atmosphere (EA): Optimizing the Building Envelope an 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® ThermaWrap® LE offers the optimal balance of water and air hold-out with vapor permeability, which helps contributes to more sustainable homes and commercial structures by reducing the amount of energy required for heating and cooling.

Standard Sizes

Standard Sizes for Tyvek® ThermaWrap® LE

Unit	Width	Length
Roll	9 ft.	100 ft.

TESTING AND CODE COMPLIANCE

Tyvek® ThermaWrap® LE™ 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 E2178	Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials	Air Penetration Resistance	.002 cfm/ft^2@ 1.57 psf
TAPPI T460	Air resistance of paper (Gurley method)	Air Penetration Resistance	900 sec/100cc
FIRE			
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials	Surface Burning Characteristics Class A Index	Flame Spread = 10 Smoke Developed = 40
STRENGTH			
ASTM D882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting	Breaking Strength	29/27 lbs/in
ASTM D1117	Standard Guide for Evaluating Nonwoven Fabrics	Tear Resistance	12/7 lbs
TAPPI T-410	Grammage of Paper and Paperboard (Weight per Unit Area)	Basis Weight	2.5 oz/yd^2
WATER			
AATCC 127	Test Method for Water Resistance: Hydrostatic Pressure	Water Penetration Resistance	210 cm
ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Water Vapor Transmission Method B	475 g/m^{268} perms

For more information, visit us at
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