DUPONT™ TYVEK® COMMERCIALWRAP®
A DURABLE, HIGH PERFORMANCE WEATHER BARRIER ENGINEERED
SPECIFICALLY FOR COMMERCIAL CONSTRUCTION

DESCRIPTION
Engineered to provide excellent performance as an air and water barrier, Tyvek® CommercialWrap® delivers the added strength and durability needed in commercial construction. As a part of DuPont™ Tyvek® Commercial Air and Water Barrier Systems, Tyvek® CommercialWrap® can easily be integrated with other system components to provide superior air and water hold-out with high tear-resistance, high wind-load resistance and 9-month UV resistance. It provides the best balance of air and moisture management resulting in more durable and energy efficient structures.

Tyvek® CommercialWrap® is backed by a 10-year limited warranty and industry-leading technical support.

TYPICAL PROPERTIES (APRIL, 2015)
Please contact your local DuPont™ Tyvek® Specialist before writing specifications around this product. Product properties are as follows.

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM E2357</td>
<td>Air Penetration Resistance</td>
<td>cfm/ft² @ 1.57 psf</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>Gurley Hill (TAPPI T-460)</td>
<td>Air Penetration Resistance</td>
<td>sec/100cc</td>
<td>&gt;1500</td>
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<tr>
<td>ASTM E1677</td>
<td>Air Penetration Resistance</td>
<td>cfm/ft² @ 1.57 psf</td>
<td>Type 1</td>
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<tr>
<td>ASTM E2178</td>
<td>Air Penetration Resistance</td>
<td>cfm/ft² @ 1.57 psf</td>
<td>.001</td>
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<tr>
<td>ASTM E283</td>
<td>Wall Assembly Air Penetration Resistance</td>
<td>cfm/ft² @ 1.57 psf</td>
<td>&lt;0.01</td>
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<tr>
<td>ASTM E96-00</td>
<td>Water Vapor Transmission</td>
<td>Method A g/m²-24 hrs</td>
<td>163</td>
</tr>
<tr>
<td>ASTM E96-00</td>
<td>Water Vapor Transmission</td>
<td>Method A (perms)</td>
<td>23</td>
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<tr>
<td>ASTM E96-00</td>
<td>Water Vapor Transmission</td>
<td>Method B g/m²-24 hrs</td>
<td>200</td>
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<tr>
<td>ASTM E96-00</td>
<td>Water Vapor Transmission</td>
<td>Method B (perms)</td>
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<tr>
<td>AATCC 127</td>
<td>Water Penetration Resistance</td>
<td>cm</td>
<td>280</td>
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<td>ASTM E331</td>
<td>Wall Assembly Water Penetration Resistance</td>
<td>Tested to 15 psf</td>
<td>No leakage</td>
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<td>TAPPI T-410</td>
<td>Basis Weight</td>
<td>oz/yd²</td>
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<tr>
<td>ASTM D882</td>
<td>Breaking Strength</td>
<td>lbs/in</td>
<td>38/35</td>
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<tr>
<td>ASTM D1117</td>
<td>Tear Resistance</td>
<td>lbs</td>
<td>12/10</td>
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<tr>
<td>ASTM E84</td>
<td>Surface Burning Characteristics</td>
<td>Flame Spread Index Class</td>
<td>10 Class A</td>
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<tr>
<td>ASTM E84</td>
<td>Surface Burning Characteristics</td>
<td>Smoke Developed Index Class</td>
<td>10 Class A</td>
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<tr>
<td>NFPA 285</td>
<td>Flame Propagation/Multiple Assemblies</td>
<td>–</td>
<td>Pass</td>
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<tr>
<td></td>
<td>Ultra Violet Light Exposure (UV)</td>
<td>Days Months</td>
<td>270/9</td>
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</table>

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.
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PRODUCT DESCRIPTION
Tyvek® CommercialWrap® is made from 100% flash spunbonded high density polyethylene fibers which have been bonded 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.

INSTALLATION/USE INSTRUCTIONS
Please refer to DuPont Installation Guidelines for complete instructions.

Safety Precautions for Use
Tyvek® CommercialWrap® is slippery and should not be used in any application where it will be walked on. In addition, DuPont recommends using kick jacks, scaffolding, or lifts for exterior work above the first floor. If ladders must be used, extra caution must be taken to use them safely by following the requirements set forth in ANSI Standards 14.1, 14.2, and 14.5 for ladders made of wood, aluminum, and fiberglass, respectively.

Tyvek® CommercialWrap® is combustible and should be protected from flames and other high heat sources. Tyvek® CommercialWrap® will melt at 275°F (135°C) and if the temperature of the product reaches 750°F (400°C), it will burn and the fire may spread and fall away from the point of ignition. For more information, call 1-800-44-Tyvek.

Preparation
No surface preparation is needed for the installation of Tyvek® CommercialWrap®.

TESTING/CODE COMPLIANCE

Moisture Protection – Weather-Resistant Barriers
The 2012 International Building Code (IBC, Section 1403.2 Weather Protection) requires that exterior walls shall provide the building with a weather-resistant exterior wall enveloper. This shall include flashing, as described in Section 1405.4. Tyvek® CommercialWrap® and where applicable, DuPont self-adhered flashing and accessory products, have been tested and meet weather-resistant barrier codes and standards requirements. The following test methodologies were used:

- ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Pressure
- ASTM E2556 Standard Specification for Vapor Permeable Flexible Sheet Water-resistant Barriers intended for mechanical attachment
- ASTM E96-00 Standard Test Methods for Water Vapor Transmission of Materials; Water resistive barriers are typically vapor permeable, which is generally desirable because it allows for drying of incidental moisture intrusion into the wall assembly
- AATCC 127 Hydrostatic Head Test for water-resistant barrier materials, measuring pressure to failure or time of failure at a given pressure

Air Leakage Control — Air Barriers
ASHRAE 90.1 2010 (American Society of Heating, Refrigerating and Air-Conditioning Engineers) requires that the entire building envelope shall be designed and constructed with a continuous air barrier. This is a mandatory provision for the building envelope. IECC 2012 (International Energy Conservation Code) for commercial buildings also requires a continuous air barrier. These codes are being adopted in many states across the United States. Tyvek® CommercialWrap® and where applicable, DuPont self-adhered flashing and accessory products have been tested and meet air barrier codes and standards requirements. The following test methodologies were used:

- ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
- ASTM E1677 Standard Specification for an Air Retarder (AR) Material or System for Low-Rise Framed Building Walls
- ASTM E283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen

Other

Tyvek® CommercialWrap®, in conjunction with DuPont self-adhered flashing and accessory products, have been evaluated according to Air Barrier Association of America (ABAA) protocol and are listed at the ABAA website under “ABAA evaluated Air Barrier Assemblies”, www.airbarrier.org

NOTICE
Tyvek® CommercialWrap® should be covered with the facade within nine months to limit UV exposure. Follow facade manufacturer’s installation and maintenance requirements in order to maintain water holdout.

MATERIAL STORAGE/DISPOSAL
Tyvek® CommercialWrap® should be stored in a clean, dry environment.

PACKAGING
Tyvek® CommercialWrap® is available the following roll sizes:
- 5’ x 200’ (1.5 x 61 m)
- 10’ x 125’ (3.1 x 38.1 m)

WARRANTY
Backed by a limited product warranty, see www.weatherization.tyvek.com.

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