**PRODUCT INFORMATION – FEATURES/BENEFITS**

**Air and Water Barrier Performance**
- Offers the ideal combination of enhanced drainage, air and water holdout plus vapor permeability.
- Air Barrier Association of America evaluated to exceed ABAA, ASHRAE 90.1 and IECC air leakage requirements when tested in accordance with ASTM E2357.

**Drainage**
- Offers > 98% drainage efficiency when tested in accordance with ASTM E2273.

**Ease of Installation**
- Easily installed, prior to the building’s exterior facade, to help protect against air and water infiltration.

**High Performance Durability**
- Offers high tear-resistance and high wind-load-resistance to help stand up to commercial construction site conditions.
- Withstands up to nine months of UV exposure.

**Sustainable Solutions**
- DuPont™ Tyvek® CommercialWrap® D 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® CommercialWrap® D helps to reduce the amount of energy required for heating and cooling.

**Complete System**
Tyvek® CommercialWrap® D 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.

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**DESCRIPTION**

Tyvek® CommercialWrap® D offers superior drainage and durability for commercial buildings. It features a specially engineered surface texture that provides enhanced water drainage under a wide variety of facades in climates that may require additional drainage.

As a part of DuPont™ Tyvek® Commercial Air and Water Barrier Systems, Tyvek® CommercialWrap® D 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. Tyvek® CommercialWrap® D is backed by a 10-year limited warranty and industry-leading technical support.

**TYPICAL PROPERTIES (JULY, 2016)**

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 E2273</td>
<td>Drainage Efficiency</td>
<td>%</td>
<td>&gt;98</td>
</tr>
<tr>
<td>TAPPI T-410</td>
<td>Basis Weight</td>
<td>oz/yd²</td>
<td>2.4</td>
</tr>
<tr>
<td>ASTM D882</td>
<td>Breaking Strength</td>
<td>lbs/in</td>
<td>33/41</td>
</tr>
<tr>
<td>ASTM D1117</td>
<td>Tear Resistance</td>
<td>lbs</td>
<td>6/9</td>
</tr>
<tr>
<td>ASTM E84</td>
<td>Surface Burning Characteristics</td>
<td>Flame Spread Index Class</td>
<td>15 Class A</td>
</tr>
<tr>
<td>ASTM E84</td>
<td>Surface Burning Characteristics</td>
<td>Smoke Developed Index Class</td>
<td>25 Class A</td>
</tr>
<tr>
<td>NFPA 285</td>
<td>Flame Propagation/Multiple Assemblies</td>
<td>--</td>
<td>Pass</td>
</tr>
<tr>
<td>Ultra Violet Light Exposure (UV)</td>
<td>Days Months</td>
<td>270 9</td>
<td></td>
</tr>
</tbody>
</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.
**PRODUCT DESCRIPTION**

Tyvek® CommercialWrap® D 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® D 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® D is combustible and should be protected from flames and other high heat sources. Tyvek® CommercialWrap® D 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® D.

**TESTING/CODE COMPLIANCE**

**Moisture Protection – Weather-Resistant Barriers**

The 2015 International Building Code (IBC, Section 1403.2 Weather Protection) requires that exterior walls shall provide the building with a weather-resistant exterior wall envelope. This shall include flashing, as described in Section 1405.4. Tyvek® CommercialWrap® D 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-resistive 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® D 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® D, 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® D 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® D should be stored in a clean, dry environment.

**PACKAGING**

Tyvek® CommercialWrap® D is available the following roll sizes:

- 5’ x 200’ (1.5 x 61m)
- 10’ x 125’ (3.1 x 38.1 m)

**WARRANTY**

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