

3M™ Wind Blade Protection Tape W8607, Colorless

Product Description

3M™ Wind Blade Protection Tape W8607 can be used to protect wind turbine blade surfaces from damage caused by minor impacts and erosion due to rain, sand, dirt, or other debris.

It is made from an exceptionally tough, transparent polyurethane elastomer that resists puncture, erosion and UV. 3M Wind Blade Protection Tape W8607 application is easy, requires no special tools, and is solvent-free. 3M Wind Blade Protection Tape W8607 is colorless and is constructed with a durable, pressure sensitive acrylic adhesive.

Typical Physical Properties

| Properties | | Typical Values |
|--------------------------------------------------------------|-----------------|----------------|
| Approximate Applied Thickness ¹ mm (inches) | Film | 0.30 (0.012) |
| | Adhesive | 0.06 (0.002) |
| | Total Thickness | 0.36 (0.014) |
| Standard Roll Length ² m (yd) | | 16.5 (18) |
| Standard Roll Width ² mm (inches) | | 203 (8) |
| Approximate Weight g/m ² (lb/yd ²) | | 439 (0.81) |
| Splices | | No |
| Liner Type | | Polyethelene |

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Read and follow the precautions on label and SDS before using product.

| Properties | Test Method | Typical Values | |
|------------------------------------------------------------|----------------------------------------------------|------------------------|----------|
| Tensile Strength @ Break in (lb) | ASTM D882 Method A | 140 (80) | |
| Elongation % @ Break | ASTM D882 Method A | 500 | |
| Rain Erosion, Initial (hrs) | UDRI (~ASTM G-73) | > 6 hrs | |
| Sand Erosion, Initial (loss in g) | UDRI, 170 – 240 microns, 15 g/cm ² load | < 0.1 g | |
| Sand Erosion, Initial (breakthrough in g/cm ²) | UDRI, 170 – 240 microns | > 80 g/cm ² | |
| Tear Strength kg (lbs) | ASTM D1938 | 1.6 (3.5) | |
| Taber Abrasion (Loss in grams) | ASTM C501 H-18,1000 g wt. 1000 cycle | < 0.10 | |
| Hardness (Shore A) | ASTM D2240 | 80 | |
| Peel Adhesion ³ @ 21°C (70°F) N/cm (oz/in) | ASTM D1000, 24 hr dwell, 180° peel | Polyester Gel Coat | 8.2 (75) |
| | | Epoxy Primer | 9.8 (90) |
| | | Polyurethane Paint | 7.1 (65) |
| Service Temperature Range °C (°F) | | -40 (-40) to 93 (200) | |
| Application Temperature °C (°F) | | 16 (60) | |

¹ Excludes the paper liner that is removed from the tape prior to application.

² Custom roll lengths and widths are available.

³ Peel adhesion values listed are representative. Peel adhesion strength may be different for each substrate or coating. 3M recommends testing peel adhesion to the substrate of interest prior to use.

Safety and Regulatory

- 3M Wind Blade Protection Tape W8607 is 100% solid and contains no hazardous air pollutants (HAPs) or volatile organic compounds (VOCs).
- This product is considered to be an article that does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

Shipping and Storage

No special/hazardous labeling or packaging required for air, ground, or water shipment of this product.

Keep film in a clean area, away from excessive moisture and out of direct sunlight. Store rolls in the shipping carton. Return partially used rolls to the shipping carton.

Shelf life

Two years from date of manufacture.

Precautionary Information

Refer to Article information sheet for health and safety information before using this product. For additional health and safety information, visit www.3M.com/sds or call 1-800-364-3577 or (651) 737-6501.

Directions for Use:

See www.3M.com/wind for 3M™ Wind Blade Protection Tape Application Instructions.

For more information, including directions for use, contact 3M Renewable Energy at 800-755-2654 or visit us at www.3M.com/wind.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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