

# 3M™ Wind Blade Protection Tape W8607 and W8607R, Colorless

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

## Product Description

3M™ Wind Blade Protection Tape W8607 and W8607R 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, abrasion-resistant polyurethane elastomer that resists puncture, tearing, and erosion. It is splice-free and is available in both a paper liner (W8607R) and a polyethylene liner (W8607). This highly durable material has also been designed to be resistant to UV light. 3M Wind Blade Protection Tape W8607 and W8607R application is fast and easy, requires no special tools, and is solvent-free. 3M Wind Blade Protection Tape W8607 and W8607R is colorless and is constructed with a long-aging, solvent-resistant pressure-sensitive acrylic adhesive.

## Typical Physical Properties

Properties		Typical Values
Approximate Applied Thickness <sup>1</sup>	Film	0.012 (0.30)
Inches (mm)	Adhesive	0.002 inch (0.06)
	Total Thickness	0.014 inch (0.36)
Standard Roll Length <sup>2</sup>		18 yd (16.5 m)
Standard Roll Width <sup>2</sup>		8 inch (203 mm)
Approximate Weight		0.81 lb/yd <sup>2</sup> (439 g/m <sup>2</sup> )
Splices		No
Liner Type		Paper and polyethylene

Properties	Test Method	Typical Values	
Tensile Strength @ Break lb/in (N/100 mm)	ASTM D882 Method A	80 (1400)	
Elongation % @ Break	ASTM D882 Method A	500	
Tear Strength (lbs. (kg))	ASTM D1938	3.5 (1.6)	
Taber Abrasion (Loss in grams)	ASTM C501 H-18,1000 g wt. 1000 cycle	< 0.10	
Hardness (Shore A)	ASTM D2240	80	
Sand Erosion (10 grams/cm <sup>2</sup> sand density)	University of Dayton Research Institute	No damage after 2 hrs.	
Peel Adhesion <sup>3</sup> @ 70°F (21°C) (oz/in (N/100))	ASTM D1000, 24 hr dwell, 180° peel	Polyester Gel Coat	75 (82)
		Epoxy Primer	90 (98)
		Polyurethane Paint	65 (71)
Maximum Service Temperature °F (°C)		-40 (-4) to 180 (82)	

<sup>1</sup> Excludes the paper liner that is removed from the tape prior to application.

<sup>2</sup> Custom roll lengths and widths are available.

<sup>3</sup> The pressure-sensitive acrylic adhesive provides excellent adhesion to common surfaces, used in the wind energy industry, when properly prepared and applied.

## Safety and Regulatory

- 3M Wind Blade Protection Tape W8607 and W8607R is 100% solids and contains no hazardous air pollutants (HAPs) or volatile organic compounds (VOC's). Respiratory protection is not required under normal use conditions.
- 3M Wind Blade Protection Tape W8607 and W8607R and its packaging materials meets US Federal and California regulations for land fillable materials. The product is potentially recyclable.
- 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 Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, visit [www.3M.com/msds](http://www.3M.com/msds) or call 1-800-364-3577 or (651) 737-6501.

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

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## Renewable Energy Division

3M Center, Building 235-1S-67  
St. Paul, MN 55144-1000  
1-800-755-2654  
[www.3M.com/wind](http://www.3M.com/wind)

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