

# 3M™ Wind Blade Protection Tape W8620, White

**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 W8620 can be used to help protect wind turbine blade surfaces from damage caused by minor impacts and erosion due to rain, sand, dirt, or other debris.

It is white in color and is made from an exceptionally tough polyurethane elastomer that resists puncture, erosion and UV. 3M Wind Blade Protection Tape W8620 application is fast, easy, splice-free, requires no special tools, and is solvent-free. 3M Wind Blade Protection Tape W8620 is colorless and is constructed with a long-aging, pressure sensitive acrylic adhesive.

## Typical Physical Properties

Properties		Typical Values
Approximate Applied Thickness <sup>1</sup> mm (inches)	Film	0.30 (0.012)
	Adhesive	0.06 (0.002)
	Total Thickness	0.36 (0.014)
Standard Roll Length <sup>2</sup> m (yd)		16.5 (18)
Available Widths <sup>2</sup> mm (inches)	Minimum	12.7 (0.5)
	Maximum	1,219 (48)
Approximate Weight g/m <sup>2</sup> (lb/yd <sup>2</sup> )		405 (0.81)
Splices		No

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

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

Properties	Test Method	Typical Values
Tensile Strength @ Break N/cm (lb/in)	ASTM D882	140 (80)
Elongation % @ Break	ASTM D882	500
Rain Erosion, Initial (hrs)	UDRI (~ASTM G-73)	Approximately 3.5 hrs > 3x competitive coatings*
Sand Erosion, Initial (loss in g)	UDRI, 170 – 240 microns, 15 g/cm <sup>2</sup> load	< 0.1 g < 6x competitive coatings*
Sand Erosion, Initial (breakthrough in g/cm <sup>2</sup> )	UDRI, 170 – 240 microns	> 80 g/cm <sup>2</sup> > 8x competitive coatings*
UV Resistance		Excellent
Service Temperature Range °C (°F)		-40 (-40) to 93 (200)
Application Temperature °C (°F)		>16 (60)

\* Competitive coatings as applied and tested by 3M.

## Safety and Regulatory

- 3M Wind Blade Protection Tape W8620 is 100% solids and contains no hazardous air pollutants (HAPs) or volatile organic compounds (VOCs). Respiratory protection is not required during Wind Blade Protection Tape application.
- 3M Wind Blade Protection Tape W8620 tape and its packaging materials meet U.S. Federal and California regulations for landfillable 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.

## Directions for Use

See [www.3M.com/wind](http://www.3M.com/wind) for 3M™ Wind Blade Protection Tape Application Instructions.

---

For more information on our wind manufacturing product line, contact 3M Renewable Energy at 800-755-2654 or visit us at [www.3M.com/wind](http://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.

**Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

**Warranty, Limited Remedy, and Disclaimer:** Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



## 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)

Please recycle. Printed in USA.  
Issued: 5/12 © 3M 2012.  
All rights reserved. 8644HB  
98-0150-0080-9

3M is a trademark of 3M Company.  
Used under license by  
3M subsidiaries and affiliates.