

3M™ Wind Blade Protection Tape W8640, Light Gray (RAL 7035)

Product Description

3M™ Wind Blade Protection Tape W8640 can be used to help protect wind turbine blade surfaces from damage caused by sand and rain erosion and minor impact.

It is gray in color and is made from a tough polyurethane elastomer that resists puncture, erosion and UV. 3M Wind Blade Protection Tape W8640 is easy to apply and requires no special tools. 3M Wind Blade Protection Tape W8640 is light gray 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)
Available Widths ² mm (inches)	Minimum	12.7 (0.5)
	Maximum	609.6 (24)
Approximate Weight g/m ² (lb/yd ²)		405 (0.81)
Splices		No

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.

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

² Custom roll lengths and widths are available.

Properties	Test Method	Typical Values
Tensile Strength @ Break N/cm (lb/in)	ASTM D882	154 (87)
Elongation % @ Break	ASTM D882	500
Rain Erosion, Initial (hrs)	UDRI (~ASTM G-73)	Approximately 3.5 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
UV Resistance		Excellent
Tear Strength kg (lbs)	?	?
Taber Abrasion (Loss in grams)	?	?
Hardness (Shore A)	?	?
Peel Adhesion ³ @ 21°C (70°F) N/cm (oz/in)	?	?
		?
		?
Service Temperature Range °C (°F)		-40 (-40) to 93 (200)
Application Temperature °C (°F)		>16 (60)

Safety and Regulatory

- 3M Wind Blade Protection Tape W8640 is 100% solids and contains no hazardous air pollutants (HAPs) or volatile organic compounds (VOCs).
- 3M Wind Blade Protection Tape W8640 and its packaging materials meet U.S. Federal and California regulations for landfillable materials.
- 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 product Safety Data 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.

United States 800 755 2654	Spain 34 91 3216000	Italy 39 02 70351	South Korea 82 2 3771 4043	Brazil 0800 13 23 33	Japan 81 3 3709 8283
Germany 49 2131 144450	France 33 1 30316161	Singapore 65 6450 8888	India 91 80 22231414	Mexico 52 55 52702250	Malaysia 603 78062888
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[For more information on our wind energy product line, contact 3M Renewable Energy at 800 755 2654 or visit us at 3M.com/wind.](https://www.3m.com/wind)

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