

3M Electrical Markets Division

3M™ Wind Protection Tape 2.0

W8750 (colorless) and W8780 (light grey); RAL 7035

Introduction

3M™ Wind Blade Protection Tape 2.0 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 either a translucent (W8750) or light grey (W8780) polyurethane elastomer that is designed to resist puncture, erosion and UV rays. 3M Wind Blade Protection Tape 2.0 is easy to apply and requires no special tools. 3M Wind Blade Protection Tape W8750 is colorless, and 3M W8780 tape is light grey and both are constructed with a highly durable, pressure sensitive acrylic adhesive.

Safety and Regulatory

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

Wind Protection Tape Typical Physical Properties

Properties		Typical Values
Approximate Applied Thickness ¹ µm (mil)	Film	300 (12)
	Adhesive	60 (2.4)
	Total Thickness	360 (14.4)
Standard Roll Length m (yd)		33 (36)
Standard Roll Width mm (inches)		104 or 305 (4 or 12)
Approximate Weight g/m ² (lb/yd ²) ¹		400 (17)
Splices		No
Liner Type		Polyethylene
Tensile Strength @ Break MPa	ASTM D882 Method A	23
Elongation @ Break %	ASTM D882 Method A	>600
Peel Adhesion ² @ 21°C (70°F) 24 hour dwell, N/cm (oz./in)	ASTM D1000, 180° peel	Epoxy Primer W9910 >7.0 (64) Polyurethane Paint >6.0 (55)
Rain Erosion, Initial, Polytech Denmark hours	ASTM G-73 Whirling Arm 123-157 m/s	>18
Sand Erosion, Initial g	UDRI, 110 microns, 300 g/cm ² , 150 m/s (340 mph)	<0.05 g/cm ²
UV Resistance		Excellent
Hardness Shore A	ASTM D2240	75
Yellowing Index after 4,000 hours UV exposure YI	ASTM E313, 1.45 W/m ² (340 nm) @ 60°C (140°F)	2
Gloss 20°/60°	ASTM D523	0, 7/6
Service Temperature °C (°F)		-40 (-40) to 70 (158)
Application Temperature °C (°F)		>15 (59)

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

² 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.

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.

3M™ Wind Protection Tape 2.0 W8750 (colorless) and W8780 (light grey); RAL 7035 (continued)

the shipping carton.

3M™ Wind Blade Protection Tape
Application Instructions.

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

United States

3M Renewable Energy
Division
800 676 8381

Germany

49 2131 144450

Denmark

45 43 480100

Spain

34 91 3216000

France

33 1 30316161

United Kingdom

44 1344 858000

Italy

39 02 70351

Singapore

65 6450 8888

China

86 21 62753535

Korea

82 2 3771 4043

India

91 80 22231414

Canada

800 364 3577

Brazil

0800 13 23 33

Mexico

52 55 52702250

Taiwan

886 933 896752

Japan

81 3 3709 8283

Malaysia

603 78062888

Other Areas

800 755 2654

For more information on our wind energy product line, contact 3M Electrical Markets at 800 676 8381 or visit us at www.3M.com/wind.

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