

3M Electrical Markets Division

3M™ Wind Protection Tape 2.0

W8750 (colourless) 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 colourless, 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 the shipping carton.

Properties	Descriptor	Typical Values
Approximate Applied Thickness¹ µm (mil)	Film	300 (12)
	Adhesive	60 (2.4)
	Total Thickness	360 (14.4)
Standard Roll Length m		33
Standard Roll Width mm (inches)		104 or 305 (4 or 12)
Approximate Weight g/m² (lb/yd²)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 24-hour dwell, N/cm (oz./in)	ASTM D1000, 180° peel	Epoxy Primer W9910 >7.0 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		-40 °C to 70 °C
Application Temperature		>15 °C

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.

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, call **1-888-364-3577** or email **3Menergysolutions@mmm.com**.

For more information about 3M electrical products and solutions contact us at: **3Menergysolutions@mmm.com**

Important Notice

Before using these products, you must evaluate them and determine if they are suitable for your intended application. You assume all risks and liability associated with such use.

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