



# Polyurethane Protective Tape

## 8671 • 8671P

Technical Data

October, 2005

### Product Description

3M™ Polyurethane Protective Tape 8671 is a polyurethane elastomer that resists punctures, tearing, abrasion and erosion. It is formulated especially for resistance to ultraviolet light. 3M 8671 tape provides a simple, easy method of protecting a surface from corrosion, abrasion and minor impact damage. It can be installed in a minimal amount of time. It can be painted or applied over painted surfaces. 3M 8671 tape is constructed with a long-aging, solvent resistant, pressure sensitive acrylic adhesive, protected with an easy release liner.

3M 8671 tape is available in transparent and gloss white and is available on two liner configurations:

- A) 3M 8671 tape - Paper liner on the adhesive side
- B) 3M 8671P tape - Polypropylene liner on the adhesive side

### Typical Physical Properties and Performance Characteristics

- Notes: 1) The following technical information and data should be considered representative or typical only and should not be used for specification purposes.
- 2) ASTM = American Society for Testing and Materials.
- 3) Metric values are listed in parenthesis.

#### A. Dimensions

<b>Approximate Applied Thickness:*</b>	0.012 inch (0.30 mm) Film 0.002 inch (0.06 mm) Adhesive <hr/> Total thickness 0.014 inch (0.36 mm)
<b>Standard Roll Length:</b>	36 yd (32.9 m)
<b>Available Widths:</b>	Minimum 1/2 inch Maximum 48 inches (1.25 cm to 122 cm)
<b>Approximate Weight:*</b>	0.81 lb/yd <sup>2</sup> (405 g/m <sup>2</sup> )

\*Excludes the liner that is removed from the tape prior to application.

#### B. Typical Physical Properties and Performance Characteristics

Property	Test Method	Units	Typical Value
<b>Tensile Strength @ Break</b>	ASTM D882	lb/in (N/100 mm)	80 (1400)
<b>Elongation % @ Break</b>	ASTM D882	%	500
<b>Peel Adhesion @ 70°F (21°C) to:</b> Bare Aluminum Acrylic Enamel Paint ABS Plastic	ASTM D-1000	oz/in (N/100 mm)	69 (76) 48 (52) 55 (60)
<b>Maximum Service Temperature</b>		°F (°C)	275°F (135°C)

### General Information

- 3M 8671 tape has excellent environmental resistance properties and has been used to isolate and protect substrates from environmental damage and corrosive elements.
- 3M 8671 tape can be used to provide a UV-resistant surface coating for indoor and outdoor applications. For best UV stability, please use 3M™ Polyurethane Protective Tape 8673.
- 3M 8671 tape may be painted per 3M Technical Bulletin *Polyurethane Protective Tape, Painting Instructions* (70-0702-6358-0).

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### Safety and Regulatory

- 3M™ Polyurethane Protective Tape 8671 is **100%** solids and contains no hazardous air pollutants (HAPs), volatile organic components (VOCs) or materials restricted by regulations or laws. Respiratory protection is not required under normal use conditions.
- 3M 8671 tape meets US Federal and California regulations for landfillable materials. The product is potentially recyclable.
- Packaging materials meet US Federal and California regulations for landfillable materials and are recyclable or reusable.
- 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 or regulations for air, ground or water shipment for 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 (2) years from date of manufacture.

### Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501.

### For Additional Information

In the U.S., call toll free 1-800-235-2376 or fax 1-800-435-3082 or 651-737-2171. For U.S. Military, call 1-866-556-5714. If you are outside of the U.S., please contact your nearest 3M office or one of the following branches:

<b>Australia</b> 61-2-498-9711 tel 61-2-498-9710 fax	<b>Austria</b> 01-86686-298 tel 01-86686-229 fax	<b>Brazil</b> 55 19 3838-7876 tel 55 19 3838-6892 fax	<b>Canada</b> 800-410-6880 ext. 6018 tel 800-263-3489 fax
<b>China</b> 86-21-62753535 tel 86-21-62190698 fax	<b>Denmark</b> 45-43-480100 tel 45-43-968596 fax	<b>France</b> 0810-331-300 tel 30-31-6195 fax	<b>Germany</b> 02131-14-2344 tel 02131-14-3647 fax
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This product was manufactured under a 3M quality standard registered under ISO9001 standards.

# 3M

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