



Polyurethane Protective Tape

8671 • 8671P

Technical Datasheet

June 2010

Product Description

3M™ Polyurethane Protective Tape (PPT) 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

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

*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
Tensile Strength @ Break	ASTM D882	lb/in (N/100 mm)	80 (1400)
Elongation % @ Break	ASTM D882	%	500
Peel Adhesion @ 70°F (21°C) to: Bare Aluminum Acrylic Enamel Paint ABS Plastic	ASTM D-1000	oz/in (N/100 mm)	69 (76) 48 (52) 55 (60)
Maximum Service Temperature		°F (°C)	200°F (93°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 is **100%** solids and contains no hazardous air pollutants (HAPs), volatile organic components (VOCs). Respiratory protection is not required under normal use conditions.
- Polyurethane Protective 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 and no 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 the date of manufacture or as expressly certified by 3M.

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, please visit www.3M.com/msds or 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:

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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.

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This product was manufactured under a 3M quality standard registered under AS9100 standards.

Aerospace and Aircraft Maintenance Department

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