



Polyurethane Protective Tape

8616

Technical Data

November, 2004

Product Description

3M™ Polyurethane Protective Tape 8616 is made from a tough, matte transparent, abrasion resistant, polyurethane elastomer that resists puncture and tearing. It is combined with an acrylic pressure sensitive adhesive formulated for compatibility with plasticizer containing materials (e.g. vinyl). Polyurethane Protective Tape 8616 provides a simple and easy method of producing a durable system of patching holes and tears in vinyl coated fabrics and vinyl films. Polyurethane Protective Tape 8616 is constructed with a solvent resistant, pressure sensitive, acrylic adhesive, protected with an easy-release paper liner.

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:*	0.004 inch (0.10 mm) Film 0.012 inch (0.30 mm) Adhesive Total thickness 0.016 inch (0.40 mm)
Standard Roll Length:	36 yd (32.9 m)
Available Widths:	Minimum 1/2 inch Maximum 24 inches (1.25 cm to 61 cm)
Approximate Weight:*	0.62 lb/yd ² (350 g/m ²)

*Excludes the paper 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)	32 (560)
Elongation % @ Break	ASTM D882	%	500
Peel Adhesion @ 70°F (21°C) to: Bare Aluminum Stainless Steel Vinyl G-10 Epoxy Board	ASTM D-1000	oz/in (N/100 mm)	60 (66) 82 (90) 80 (88) 89 (98)
Max. Service Temperature		°F (°C)	200°F (93°C)

General Information

- 3M™ Polyurethane Protective Tape has weather resistant properties and has been used to isolate and protect substrates from environmental damage and corrosive elements.
- Polyurethane Protective Tape may be painted per 3M™ Technical Bulletin “Polyurethane Protective Tape, Paint 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) or materials restricted by regulations or law. 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 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

To request additional product information or to arrange for sales assistance, call toll free 1-800-235-2376. Address correspondence to: 3M Aerospace and Aircraft Maintenance Division, 3M Center, Building 223-1N-14, St. Paul, MN 55144-1000. Our fax number is 1-800-421-2483 or 708-338-5602. If you are outside of the U.S., please contact your nearest 3M office or one of the following branches:

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Important Notice

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Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.



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