



Polyurethane Protective Tape

8663 • 8663 DL (dual liner)

Technical Datasheet

April 2010

Product Description 3M™ Polyurethane Protective Tape 8663 is made from an exceptionally tough abrasion resistant polyurethane elastomer that resists punctures, tearing, abrasion and erosion. It is formulated for resistance to ultraviolet light. 3M 8663 Tape provides a simple, easy method of protecting a surface from corrosion, abrasion and minor impact damage. It can be installed in a minimum amount of time with simple tools. It can be painted or applied over painted surfaces. 3M 8663 Tape and 3M 8663 DL Tape are constructed with a long-aging, solvent-resistant, pressure-sensitive acrylic adhesive that is protected with an easy-release plastic liner.

3M 8663 Tape is a transparent tape available in three liner configurations:

- A) Single polypropylene liner on the adhesive side.
- B) Single skip-slit polypropylene liner on the adhesive side.
- C) Dual liners, one on each side of the tape.

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:*	0.016 inch (0.40 mm) Film 0.002 inch (0.06 mm) Adhesive Total thickness 0.018 inch (0.46 mm)
Standard Roll Length:	36 yd (32.9 m)
Available Widths:	1/2-inch min. to 48-inch max. (1.25 cm to 122 cm)
Approximate Weight:*	1.04 lb./yd ² (516.7 g/m ²)

*Excludes the polyethylene 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/100mm)	117 (2049)
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/100mm)	84 (92) 56 (61) 65 (71)
Maximum Service Temperature		°F (°C)	200°F (93°C)

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General Information

- 3M™ Polyurethane Protective Tape 8663 and 8663 DL have excellent environmental resistance properties and have been used to isolate and protect substrates from environmental damage and corrosive elements.
- 3M 8663 Tape can be used to provide a UV resistant surface coating for indoor and outdoor applications.
- 3M 8663 DL Tape comes with a protective polyethylene adhesive liner and a polyester top liner that stiffens the product and can serve as an application aid for some installations. Both liners are removed after final installation. Primary use of this product is for aircraft floor covering/ corrosion protection per Boeing Service Letters 737-SL-53-034 and 757-SL-53-018.
- 3M 8663 Tape may be painted per 3M Technical Bulletin *Polyurethane Protective Tape, Painting Instructions* (70-0702-6357-2).

Safety and Regulatory

- 3M™ Polyurethane Protective Tape is **100%** solids and contains no hazardous air pollutants (HAPs), volatile organic component (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 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 the date of manufacture or as expressly certified by 3M.

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Precautionary Information	Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product.
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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Limitation of Liability	Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

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

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