



# 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:

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

\*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                 |
|--|-------------|-------------------|-------------------------------|
| <b>Tensile Strength @ Break</b>  | ASTM D882   | Lb./in. (N/100mm) | 117 (2049)                    |
| <b>Elongation % @ Break</b>  | ASTM D882   | %                 | 500                           |
| <b>Peel Adhesion @ 70°F (21°C) to:</b><br>Bare Aluminum<br>Acrylic Enamel Paint<br>ABS Plastic | ASTM D-1000 | Oz./in. (N/100mm) | 84 (92)<br>56 (61)<br>65 (71) |
| <b>Maximum Service Temperature</b>   |             | °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).

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### 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.

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### 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. For additional health and safety information, please visit [www.3M.com/msds](http://www.3M.com/msds) or call 1-800-364-3577 or (651) 737-6501.

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### 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><br>61-2-498-9711 tel<br>61-2-498-9710 fax | <b>Austria</b><br>01-86686-298 tel<br>01-86686-229 fax   | <b>Brazil</b><br>55 19 3838-7876 tel<br>55 19 3838-6892 fax | <b>Canada</b><br>800-410-6880 ext. 6018 tel<br>800-263-3489 fax       |
| <b>China</b><br>86-21-62753535 tel<br>86-21-62190698 fax   | <b>Denmark</b><br>45-43-480100 tel<br>45-43-968596 fax   | <b>France</b><br>0810-331-300 tel<br>30-31-6195 fax         | <b>Germany</b><br>02131-14-2344 tel<br>02131-14-3647 fax              |
| <b>Italy</b><br>02-7035-2177 tel<br>02-7035-2125 fax       | <b>Japan</b><br>03-3709-8245 tel<br>03-3709-8743 fax     | <b>Korea</b><br>02-3771-4114 tel<br>02-786-7429 fax         | <b>Netherlands</b><br>31-71-5-450-272 tel<br>31-71-5-450-280 fax      |
| <b>South Africa</b><br>11-922-9111 tel<br>11-922-2116 fax  | <b>Spain</b><br>34-91-321-6000 tel<br>34-91-321-6002 fax | <b>Switzerland</b><br>01-724-9114 tel<br>01-724-9068 fax    | <b>United Kingdom</b><br>(0) 161-237-6174 tel<br>(0) 161-237-3371 fax |

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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.

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### 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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### Warranty, Limited Remedy, and Disclaimer

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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.

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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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