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Polyurethane Protective Tape

8561

Technical Datasheet

April 2010

Product Description 3M™ Polyurethane Protective Tape 8561 is made from an abrasion-resistant polyurethane elastomer that resists puncture, tearing, abrasion and erosion. 3M 8561 Tape provides a simple, easy, and fast method of protecting a surface from corrosion, abrasion, erosion and minor impact damage. 3M 8561 Tape is constructed with a long-aging, solvent-resistant, pressure-sensitive, acrylic adhesive protected with an easy-release paper liner.

3M™ Polyurethane Protective Tape 8561 is a transparent tape available with a paper liner only.

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 0.014 inch (0.36 mm) = Total thickness |
| Standard Roll Length: | 36 yd (32.9 m) |
| Available Widths: | Minimum 1/4 inch Maximum 48 inches (0.625 cm to 122 cm) |
| Approximate Weight:* | 0.79 lb/yd ² (428 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) | 75 (1313) |
| Elongation % @ Break | ASTM D882 | % | 400 |
| Peel Adhesion @ 70°F (21°C) to: | | | |
| Plate Glass | ASTM D3330 Method A 24 hour dwell | oz/in (N/100 mm) | 36 (39) |
| Anodized Aluminum | ASTM D3330 Method A 24 hour dwell | oz/in (N/100 mm) | 62 (67) |
| Acrylic Enamel Paint | ASTM D3330 Method A 24 hour dwell | oz/in (N/100 mm) | 26 (28) |
| Mil-P-23377 Epoxy Primer | ASTM D3330 Method A 24 hour dwell | oz/in (N/100 mm) | 42 (45) |

General Information

- 3M 8561 Tape has good environmental resistance properties and has been used to isolate and protect substrates from environmental damage and corrosive elements.
- 3M 8561 Tape may be painted per 3M Technical Bulletin “3M™ 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). 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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