

# 3M™ Polyurethane Protective Tape 8544

## Technical Data Sheet

### Description

3M™ Polyurethane Protective Tape 8544 is a black tape made from an abrasion resistant polyurethane elastomer that resists puncture, tearing, abrasion, ultraviolet light and erosion. 3M 8544 tape is commonly used for the prevention of chaffing from rivets on aircraft fuel cells and bladders. 3M 8544 tape provides a simple, easy and fast method of protecting a surface from corrosion, abrasion, and minor impact damage. 3M 8544 tape is constructed with a solvent-resistant, pressure-sensitive, acrylic adhesive that is protected with an easy-release paper liner.

### Typical Physical Properties and Performance Characteristics

1. The following technical information and data should be considered repetitive of typical only and should not be used for specification purposes.
2. ASTM = American Society of Testing and Materials.
3. Metric values are listed in parenthesis.

### Dimensions

<b>Approximate applied Thickness*</b>	0006 inch (0.15 mm) Film 0.003 inch (0.08 mm) Adhesive Total thickness 0.009 inch (0.23 mm)
<b>Standard Roll Length</b>	36 yd (32.9 m)
<b>Available Widths</b>	Minimum ½ inch Maximum 28 inches (1.25 cm to 122 cm)
<b>Approximate Weight*</b>	0.51 lb/yd <sup>2</sup> (277 g/m <sup>2</sup> )

\* Excludes the paper liner that is removed from the tape prior to application.

### Typical Physical Properties and Performance Characteristics:

Property	Test Method	Units U.S. (SI)	Typical Value
Tensile Strength @ Break	ASTM D882	psi (Mpa)	2900 (20)
Elongation % @ Break	ASTM D882	%	580
Peel Adhesion @ 70°F (21°C) to:			
Plate Glass	ASTM D3330 Method A 24 hour dwell	oz/in (N/100 mm)	65 (71)
Anodized aluminum	ASTM D3330 Method A 24 hour dwell	oz/in (N/100 mm)	58 (63)
Acrylic Enamel Paint	ASTM D3330 Method A 24 hour dwell	oz/in (N/100 mm)	29 (32)
Mil-P-23377 Epoxy Primer	ASTM D3330 Method A 24 hour dwell	oz/in (N/100 mm)	88 (96)
Max. Service Temperature		°F (°C)	180°F (82°C)

## 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 clean area, away from excessive moisture and out of direct sunlight. Store rolls in the shipping carton. Return partially used rolls to shipping carton.

**Shelf Life:** Two (2) years from data of manufacture or as expressly certified by 3M.

## 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 representative.

*These products were manufactured under a 3M Quality Management System registered to the AS9100 standard*

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