

3M™ Polyurethane Protective Tape 8542/8542HS

Technical Data Sheet

Product Description

3M™ Polyurethane Protective Tape 8542 is a matte black tape made from an abrasion resistant polyurethane elastomer that resists puncture, tearing, abrasion, ultraviolet light and erosion. Polyurethane Protective Tape 8542 provides a simple, easy, and fast method of protecting a surface from corrosion, abrasion, and minor impact damage. Polyurethane Protective Tape 8542 is constructed with a solvent resistant, pressure sensitive, acrylic adhesive, protected with an easy-release poly liner. Also available in a high shear adhesive.

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

Approximate applied Thickness*	0.020 inch (0.51 mm) Film 0.002 inch (0.05 mm) Adhesive Total Thickness 0.022 inch (0.56 mm)
Standard Roll Length	36 yd (32.9 m)
Available Widths	Minimum ½ inch Maximum 24 inches (1.25 cm to 61 cm)
Approximate Weight*	1.2 lb/yd ² (625 g/m ²)

* Excludes the poly 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	lb/in (N/100 mm)	40 (700)
Elongation % @ Break	ASTM D882	%	500
Peel Adhesion @ 70°F (21°C) to: Stainless Steel	ASTM D3330, Method A 24 hr dwell	oz/in (N/100 mm)	60 (66)
Mil C 85285 Polyurethane Paint	ASTM D3330, Method A 24 hr dwell		45 (49)
Mil C 85285 Polyurethane Paint With 86A	ASTM D3330, Method A 24 hr dwell		70 (77)
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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