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3M™ Polyurethane Protective Tape 8681HS

Technical Data Sheet

Product Description

3M™ Polyurethane Protective Tape 8681HS is made from an abrasion-resistant polyurethane elastomer that resists punctures, tearing, abrasion and erosion. It is formulated for resistance to ultraviolet light. 3M 8681HS Tape provides a simple, easy method of protecting a surface from corrosion, abrasion and minor impact damage. 3M 8681HS Tape is constructed with a long-aging, solvent-resistant, pressure-sensitive acrylic adhesive that is protected with an easy release plastic liner. Available in skip slit or non-skip slit liner and matte transparent or gray.

Typical Physical Properties and Performance Characteristics

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 of Testing and Materials.
3. Metric values are listed in parenthesis.

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 ½ inch Maximum 24 inches (1.25 cm to 61 cm)
Approximate Weight*	0.81 lb/yd^2 (405 g/m^2)

**Excludes the polyethylene 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
Tensil Strength @ Break	ASTM D882	lb/in (N/100 mm)	120 (2,106)
Elongation % @ Break	ASTM D882	%	500
Peel Adhesion @ 70°F (21°C) to:			
Bare Aluminum	ASTM D-3330		135 (148)
Acrylic Enamel Paint			52 (57)
ABS Plastic		oz/in (N/100 mm)	55 (60)
Mil-P-23377 Epoxy Primer	ASTM D882		90 (98)
Mil-PRF-85285			60 (66.72)
Max. Service Temperature		°F (°C)	180°F (82°C)

General Information

- 3M™ Polyurethane Protective Tape has weather resistance properties and has been used to isolate and protect substrates from environmental damage and corrosive elements
- Polyurethane Protective Tape may be painted per 3M Technical Bulletin, Polyurethane Protective Tape, Painting instructions

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 manufacture under a 3M Quality Management System registered to the AS9100 standard

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