



Polyurethane Protective Tape

8681HS (high shear adhesive)

Technical Datasheet

November 2010

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. It can be installed in a minimum amount of time with simple tools. It can be painted or applied over painted surfaces. 3M 8681HS Tape is constructed with a long-aging, solvent-resistant, pressure-sensitive acrylic adhesive that is protected with an easy-release plastic liner.

3M 8681HS Tape is available in the following colors: Matte Clear, 36118 Gray, 36173 Gray, 36251 Gray, 36270 Gray, 36320 Gray and 36375 Gray.

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 1/2 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.

B. Typical Physical Properties and Performance Characteristics

Property	Test Method	Units	Typical Value
Tensile Strength @ Break:	ASTM D412	lb/in (N/100 mm)	87 (1542)
Elongation % @ Break:	ASTM D882	%	500
Peel Adhesion @ 70°F (21°C) to: Bare Aluminum Acrylic Enamel Paint ABS Plastic	ASTM D-1000	oz/in (N/100 mm)	72 (79) 52 (57) 55 (60)
Max. Service Temperature:		°F (°C)	200°F (93°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". (70-0702-6358-0)