Polyester Tape
8402 • 8403

Technical Data | January 2017

Product Description

3M™ Polyester Tape 8402 and 8403 are film tapes with a silicone adhesive for holding down bagging materials and parts during composite and metal bonding operations. Ideal for splicing applications on surfaces that are difficult to adhere too, such as silicone coated papers and films.

Product Construction

Backing	Adhesive	Color	Standard Roll
Polyester	Silicone	Translucent green	72 yds. (66 m)

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

		ASTM Test Method
3M tape 8402		
Adhesion to Steel:	23 oz./in. width (25 N/100 mm)	D-3330
Tensile Strength at Break:	25 lbs./in. width (438 N/100 mm)	D-3759
Elongation at Break:	125%	D-3759
Backing Thickness:	0.92 mils (0.02 mm)	D-3652
Total Tape Thickness:	1.9 mils (0.05 mm)	D-3652
Short Term Temperature Use Range:	-60°F to 425°F (-50°C to 218°C) Removes cleanly and remains flexible after 3 hours, 350°F (177°C), in autoclave.	
3M tape 8403		
Adhesion to Steel:	25 oz./in. width (27 N/100 mm)	D-3330
Tensile Strength at Break:	41 lbs./in. width (718 N/100 mm)	D-3759
Elongation at Break:	140%	D-3759
Backing Thickness:	1.4 mils (0.04 mm)	D-3652
Total Tape Thickness:	2.4 mils (0.06 mm)	D-3652
Short Term Temperature Use Range:	-60°F to 425°F (-50°C to 218°C) Removes cleanly and remains flexible after 3 hours, 350°F (177°C), in autoclave.	

Features

- Works in demanding conditions and retains flexibility in autoclave conditions in temperatures ranging from -60°F (-50°C) to 350°F (176°C)
- Higher heat resistance as compared with acrylics
- Silicone adhesive provides clean removal from a variety of surfaces
- Translucent green backing is easily identifiable for splicing applications
- Chemical resistant adhesive and backing provides durability in difficult environments

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Application Ideas	• Flash breaker in metal bonding processes where the excess epoxy (flash) flows on the tape. • Holding of bagging materials and parts during metal or composite bonding operations. • Masking metal surfaces in acid or caustic chemical milling, etching, or anodization baths. • Protective tape reduces scratches during handling and shipping. • Paint mask for areas subject to higher temperature bake cycles. • Splicing applications on surfaces that are difficult to adhere too, such as silicone coated papers and films. • Splicing of films subject to high temperatures or chemicals.
Storage	Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original packaging.
Shelf Life	To obtain best performance, use this product within 24 months from date of manufacture.
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ISO 9001

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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