

3M

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
ShortTerm	-60°F to 425°F (-50°C to 218°C)	
Temperature Use Range:	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
ShortTerm	-60°F to 425°F (-50°C to 218°C)	
Temperature Use Range:	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

3M™ Polyester Tape

8402 • 8403

Application Ideas	<ul style="list-style-type: none">• 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.
Technical Information	The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.
Product Selection and Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

3M™ Polyester Tape

8402 • 8403

Warranty, Limited Remedy, and Disclaimer

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

ISO 9001

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



Industrial Adhesives and Tapes Division
3M Center, Building 220-3S-06
St. Paul, MN 55144-1000
800-362-3550 • 877-369-2923 (Fax)
www.3M.com/industrial

3M is a trademark of 3M Company. Printed in U.S.A.
©3M 2017

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

3M:

8402 7000048552