

3M

Polyester Tape

8402

Technical Data

March, 2014

Product Description 3M™ Polyester Tape 8402 is a film tape with a silicone adhesive for composite bonding and splicing of many silicone coated papers and films.

Product Construction	Backing	Adhesive	Color	Standard Roll Length
	Polyester film	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
Adhesion to Steel:	24 oz./in. width (26 N/100 mm)	D-3330
Tensile Strength at Break:	25 lbs./in. width (438 N/100 mm)	D-3759
Elongation at Break:	100%	D-3759
Backing Thickness:	0.9 mils (0.02 mm)	D-3652
Total Tape Thickness:	1.9 mils (0.05 mm)	D-3652
Temperature Use Range:	Removes cleanly and remains flexible after 3 hours, 350°F (177°C), in autoclave.	

Features

- Abrasion, chemical and thermal resistant.
- Retains flexibility from -60° to 350°F (-50° to 177°C).
- Higher heat resistance as compared with acrylics.
- Easy and clean removability.

Application Ideas

- Masking edges of overlap seams in metal bonding process where the excess epoxy (“flash”) flows onto the tape. Clean-up is complete when the tape is removed.
- Protective overall mask on panels subject to mild caustic or acid bath etching and to prevent scratches during handling prior to bonding operations.
- Holding of parts or vacuum bags during bonding operation.
- Mask for metal in acid or caustic chemical milling baths.
- Paint mask for areas subject to high temperature bake cycles.
- Splicing of silicone liners and papers.
- Splicing of films subject to high temperatures.

3M™ Polyester Tape

8402

Storage Store under normal conditions of 70°F (21°C) and 50% R.H. in the original carton.

Shelf Life To obtain best performance, use this product within 24 months from date of manufacture.

Product Use All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Warranty and Limited Remedy Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.

Limitation of Liability Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



**Industrial Business
Industrial Adhesives and Tapes Division**

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550 • 877-369-2923 (fax)
www.3M.com/iatd



*Recycled Paper
40% pre-consumer
10% post-consumer*

3M is a trademark of 3M Company.
Printed in U.S.A.
©3M 2014 (3/14)