

# 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
ShortTem	-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
ShortTem	-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

- 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](http://www.3M.com/industrial)

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.