



Technical Data Sheet

3M™ Polyester Tape 8403

Product Description

3M™ Polyester Tape 8403 is a film tape 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 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

Technical Information Note

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

Typical Physical Properties

Attribute Name	Test Method	Value
Color		Translucent green
Adhesive Type		Silicone
Backing		Polyester
Backing Thickness	ASTM D3652	0.04 mm
Total Tape Thickness	ASTM D3652	0.06 mm

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C	2.7 N/cm ¹
Elongation at Break	ASTM D3759		140 %
Tensile Strength	ASTM D3759		71.8 N/cm

¹ 12 in/min (300 mm/min)

Attribute Name	Value
Temperature Use Range note	Removes cleanly and remains flexible after 3 hours, 350°F (177°C), in autoclave.
Long Term Temperature Resistance	177 °C ¹
Minimum Long Term Temperature Resistance	-60 °C ¹

¹ Long Term (day, weeks)

Handling/Application Information

Application Examples

- 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 and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Available Sizes

Attribute Name	Value
Standard Roll Length	66 m

Information

Precautionary Information: Refer to product label and Material Safety Data Sheet for health and safety information before using the product. For information, please contact your local 3M Office. You can click or scan QR code to see contact detail or visit www.3M.com Important Information: 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 or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law. Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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