



Technical Data Sheet

3M™ Polyester Tape 876

Product Description

3M™ Polyester Tape 876 has a polyester film backing with green, rubber-based adhesive. It can be used in high temperature applications including temporary holding, masking, flashbreaker with clean release during Autoclave Processes (hold TC wires, vacuum bagging materials, and tooling). High temperature resistant, non-silicone adhesive makes it ideal for paint masking in liquid or powder coat processes.

Product Features

- Thin, high strength polyester film provides a degree of conformability while meeting low caliper requirements.
- High temperature resistance provides good initial tack and holding strength with clean removability.
- Non-silicone, rubber-based adhesive allows use on many parts where subsequent painting or bonding is necessary.
- High temperature – clean removal from stainless steel, aluminum, and glass after exposure up to 350°F (177°C) for several hours. In shorter cycles, the tape can be expected to provide satisfactory performance in 400°F (204°C) bake cycles.

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		Green
Adhesive Type		Rubber
Backing		Polyester
Backing Thickness	ASTM D3652	0.051 mm
Total Tape Thickness	ASTM D3652	0.078 mm

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C	3.6 N/cm ¹
Elongation at Break	ASTM D3759		128 %
Tensile Strength	ASTM D3759		115.6 N/cm

¹ 12 in/min (300 mm/min)

Attribute Name	Value
Short Term Temperature Resistance	204 °C ¹
Long Term Temperature Resistance	140 °C ²
Minimum Long Term Temperature Resistance	16 °C ²
Temperature Use Range note	withstands autoclave cycles up to 350°F (177°C)

¹ Short Term (minutes, hour)

² Long Term (day, weeks)

Handling/Application Information

Application Examples

- Masking parts for high temperature painting and powder coat painting.
- Masking edges of overlap seams in metal bonding process where excess adhesive flows onto tape. Minimizes clean-up on tape removal.
- Holding materials or sealing vacuum bags during autoclave processing.

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 18 months from date of manufacture.

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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