



Technical Data Sheet

3M™ Polyester Tape 876



[Product Details](#)



[Regulatory Info/SDS](#)

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 (2 mil) |
| Total Tape Thickness | ASTM D3652 | 0.078 mm (3.1 mil) |

Typical Performance Characteristics

| Attribute Name | Test Method | Temperature | Value |
|---------------------|-------------|---------------|----------------------------------|
| 180° Peel Adhesion | ASTM D3330 | 22 °C (72 °F) | 3.6 N/cm (33 oz/in) ¹ |
| Elongation at Break | ASTM D3759 | | 128 % |
| Tensile Strength | ASTM D3759 | | 115.6 N/cm (1056 oz/in) |

¹ 12 in/min (300 mm/min)

| Attribute Name | Value |
|--|---|
| Short Term Temperature Resistance | 204 °C (400 °F) ¹ |
| Long Term Temperature Resistance | 140 °C (60 °F) ² |
| Minimum Long Term Temperature Resistance | 16 °C (60 °F) 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 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.
To obtain best performance, use this product within 18 months from date of manufacture.

Information

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ISO Statement

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

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