



# Technical Data Sheet

## 3M™ Polyester Tape 8991



[Product Details](#)



[Regulatory Info/SDS](#)

### Product Description

3M™ Polyester Tape 8991 is a blue polyester tape with a silicone adhesive. It can be used in a large variety of high temperature applications including powdercoat masking, flashbreaker, and bag sealing applications. Additional applications include, splicing, tabbing, or roll closing silicone treated liners or materials.

### Product Features

- Polyester films offer excellent thermal, abrasion, and chemical resistance while maintaining their flexibility.
- Blue color makes tape placement obvious for both application and removal.
- Thin backing leaves a sharp paint line and some conformability.
- Silicone adhesives offer high heat resistance compared to many rubber and acrylic adhesives, reducing failure due to softening, oozing, and adhesive transfer.
- Silicone adhesives adhere well to tough-to-stick-to surfaces like silicone liners and fixtures coated with mold release.
- Silicone adhesive removes cleanly from many surfaces.
- Lined version available for die-cuts.

### 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                |             | Blue               |
| Adhesive Type        |             | Silicone           |
| Backing              |             | Polyester          |
| Backing Thickness    | ASTM D3652  | 0.025 mm (1 mil)   |
| Total Tape Thickness | ASTM D3652  | 0.061 mm (2.4 mil) |
| Liner                |             | Polyester          |
| Liner Thickness      |             | 0.075 mm (3 mil)   |

### Typical Performance Characteristics

| Attribute Name                   | Test Method | Temperature   | Value                            |
|----------------------------------|-------------|---------------|----------------------------------|
| 180° Peel Adhesion               | ASTM D3330  | 22 °C (72 °F) | 3.4 N/cm (31 oz/in) <sup>1</sup> |
| Elongation at Break              | ASTM D3759  |               | 100 %                            |
| Tensile Strength                 | ASTM D3759  |               | 50.8 N/cm (29 lb/in)             |
| Long Term Temperature Resistance |             |               | 204 °C (400 °F) <sup>2</sup>     |

<sup>1</sup> 12 in/min (300 mm/min)

<sup>2</sup> Long Term (day, weeks)

## **Handling/Application Information**

### **Application Examples**

- Masking for powdercoat painting.
- Flashbreaker tape when pulling through cured coating such as epoxies.
- Holding and splicing difficult to stick to surfaces such as silicone liner.
- Holding parts or sealing vacuum bags during 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 24 months from date of manufacture.

### **Available Sizes**

| <b>Attribute Name</b> | <b>Value</b>   |
|-----------------------|----------------|
| Standard Roll Length  | 65.8 m (72 yd) |

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### **ISO Statement**

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

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