



## 3M™ Polyester Tape 8991/8991L

Last Revision Date: April, 2015

### 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

| Property                | Values    | Additional Information   |
|-------------------------|-----------|--|
| Backing                 | Polyester |  |
| Adhesive Type           | Silicone  |  |
| Liner                   | Polyester |  |
| Liner Thickness         | 0.075 mm  |  |
| Color                   | Blue      |  |
| Backing Thickness (mm)  | 0.025 mm  | View  |
| Test Method: ASTM D3652 |           |  |

Total Tape Thickness (mil)


2.4 mil

View 

Test Method: ASTM D3652

Total Tape Thickness (mm)

0.061 mm

View 

Test Method: ASTM D3652

Backing Thickness

1 mil

View 

Test Method: ASTM D3652

Liner Thickness

3 mil

## Typical Performance Characteristics

Property

Values

Additional Information

Tensile Strength

50.8 N/cm

View 

Test Method: ASTM D3759

180° Peel Adhesion

3.4 N/cm

View 

Test Method: ASTM D3330

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

31 oz/in

View 

Test Method: ASTM D3330

Notes: 12 in/min (300 mm/min)

Tensile Strength

464 oz/in

View 

Test Method: ASTM D3759

Elongation at Break (%)

100 %

View 

Test Method: ASTM D3759

Long Term Temperature Resistance

204 °C

Long Term Temperature Resistance

400 °F

## Available Sizes

| Property             | Values | Additional Information |
|----------------------|--------|------------------------|
| Standard Roll Length | 65.8 m |                        |
| Standard Roll Length | 72 yd  |                        |

## 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 24 months from date of manufacture.

## Bottom Matter

3M  
Industrial Adhesives and Tapes Division  
3M Center, Building 225-3S-06  
St. Paul, MN 55144-1000  
800-362-3550

## Trademarks

3M is a trademark of 3M Company.

## 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.

## References

| Property              | Values  |
|-----------------------|---|
| 3m.com Product Page   | <a href="https://www.3m.com/3M/en_US/p/d/b40070618/">https://www.3m.com/3M/en_US/p/d/b40070618/</a>   |
| Safety Data Sheet SDS | <a href="https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=8991/8991L">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=8991/8991L</a> |

## Family Group

Link Tags:

- [8991](#)
- [8991L](#)

| Products | Backing   | Adhesive Type | Liner     | Liner Thickness | Color | Backing Thickness (mm) | Total Tape Thickness (mm) | Tensile Strength | Long Term Temperature Resistance |
|----------|-----------|---------------|-----------|-----------------|-------|------------------------|---------------------------|------------------|----------------------------------|
| 8991     | Polyester | Silicone      | Polyester | 0.075 mm        | Blue  | 0.025 mm               | 0.061 mm                  | 50.8 N/cm        | 400 °F                           |

|       |           |          |           |          |      |          |          |           |        |
|-------|-----------|----------|-----------|----------|------|----------|----------|-----------|--------|
| 8991L | Polyester | Silicone | Polyester | 0.075 mm | Blue | 0.025 mm | 0.061 mm | 50.8 N/cm | 400 °F |
|-------|-----------|----------|-----------|----------|------|----------|----------|-----------|--------|

## ISO Statement

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

## Information

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