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Technical Data Sheet

3M™ Polyester Tape 8991L

V-5 | English-US
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Regulatory Info/SDS

Product Description

3M™ Polyester Tape 8991L 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.
- Linered 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		0.051 mm (2 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	23 °C (73 °F)	3.4 N/cm (31 oz/in) [1]
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) [2]

[1] 300 mm/min (12 in/min)

[2] 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

Attribute Name	Value
Standard Roll Length	65.8 m (72 yd)

Information

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ISO Statement

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

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