

April, 2015

## 3M™ Polyester Tape 8991/8991L

### 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.



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## 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		Method
Color	Blue		
Total Tape Thickness	0.061 mm	2.4 mil	ASTM D3652
Backing Thickness	0.025 mm	1 mil	ASTM D3652
Backing	Polyester		
Adhesive	Silicone		
Liner	Polyester		
Liner Thickness	0.075 mm	3 mil	ASTM D3652

## Typical Performance Characteristics

Property	Values		Method	Dwell/Cure Time	Substrate	Notes
180° Peel Adhesion	3.4 N/cm	31 oz/in	ASTM D3330	Initial	Stainless Steel	12 in/min (300 mm/min)
Tensile Strength	50.8 N/cm	464 oz/in	ASTM D3759			
Elongation at Break	100 %		ASTM D3759			
Temperature Use Range	Up to 204 °C	Up to 400 °F				

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## Available Sizes

Property	Values	
Standard Roll Length	65.8 m	72 yd

## Handling/Application Information

### Application Ideas

- 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 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.

### Trademarks

3M is a trademark of 3M Company.

### References

Property	Values
3m.com Product Page	<a href="https://www.3m.com/3M/en_US/company-us/all-3m-products/~/3M-Polyester-Tape-8991?N=5002385+3293242593&amp;rt=rud">https://www.3m.com/3M/en_US/company-us/all-3m-products/~/3M-Polyester-Tape-8991?N=5002385+3293242593&amp;rt=rud</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=8991/8991">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=8991/8991</a>

### ISO Statement

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

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## Information

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