

Technical Data Sheet

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.

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 Temp C	204 °C	View 
Test Condition: Long Term (day, weeks)		
Long Term Temp F	400 °F	View 
Test Condition: Long Term (day, weeks)		

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	https://www.3m.com/3M/en_US/p/d/b40070618/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=8991/8991L

Family Group

Link Tags:

- 8991
- 8991L

Products	Liner	Liner Thickness	Backing Thickness (mm)	Total Tape Thickness (mm)	Tensile Strength	Long Term Temp C	Long Term Temp F	Backing	Adhesive Type
8991	Polyester	0.075 mm	0.025 mm	0.061 mm	50.8 N/cm	204 °C	N/A	N/A	N/A

8991L	Polyester	N/A	N/A	0.061 mm	50.8 N/cm	N/A	400 °F	Polyester	Silicone
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ISO Statement

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

Information

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