

May, 2017

## 3M™ Polyester Tape 8902

### Product Description

3M™ Polyester Tapes 8902 is made with strong polyester backing and silicone adhesive, allowing it to be used in applications requiring high temperatures or adhesion to silicone treated surfaces. This tape family offers a range of backing thickness to accommodate application needs from thin tape for splicing to a thicker, stronger tape from pulling through flashing or multiple layers.

### Product Features

- Polyester films offer excellent thermal, abrasion, and chemical resistance while maintaining their flexibility.
- 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.
- Removes cleanly from stainless steel, anodized aluminum and glass after a 5 hour. bake cycle at 350°F (177°C).
- Variety of tape thicknesses offered allows uses for multiple applications.



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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	0.09 mm	3.4 mil	ASTM D3652
Backing Thickness	0.05 mm	2 mil	ASTM D3652
Backing	Polyester		
Adhesive	Silicone		

Typical Performance Characteristics

Property	Values		Method	Dwell/Cure Time	Substrate	Notes
180° Peel Adhesion	3.8 N/cm	35 oz/in	ASTM D3330	Initial	Stainless Steel	12 in/min (300 mm/min)
Tensile Strength	101.5 N/cm	928 oz/in	ASTM D3759			
Elongation at Break	140 %		ASTM D3759			
Temperature Use Range	Up to 204 °C	Up to 400 °F				

Available Sizes

Property	Values	
Standard Roll Length	65.8 m	72 yd

Handling/Application Information

Application Ideas

- Splicing of silicone treated webs.
- Masking parts for powder coat painting
- Holding parts or sealing vacuum bags during processing
- Masking edges of overlap seams in metal bonding process where excess adhesive flows onto tape. Minimizes clean-up on tape removal.
- Composite bonding – sticks well to molds treated with release agent, works as a flash breaker tape on removal of part from mold, seals vacuum bags if vacuum bag treatment is part of the process.
- Provides a good barrier for separation of dissimilar metals.
- Holding silicone or silicone treated parts.

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## Storage and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.  
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-8902?N=5002385+3293242646&amp;rt=rud">https://www.3m.com/3M/en_US/company-us/all-3m-products/~ /3M-Polyester-Tape-8902?N=5002385+3293242646&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=8902">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=8902</a>

## Family Group

	8901	8902	8905
Color	Blue	Blue	Blue
Total Tape Thickness (mm)	0.06	0.09	0.16
Backing Thickness (mm)	0.02	0.05	0.12
Backing	Polyester	Polyester	Polyester
Adhesive	Silicone	Silicone	Silicone
Tensile Strength (N/cm)	45.5	101.5	238

## ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

## Information

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