Technical Data Sheet

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.

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	
Color	Blue	
Backing Thickness (mm) Test Method: ASTM D3652	0.05 mm	View
Total Tape Thickness (mil) Test Method: ASTM D3652	3.4 mil	View
Total Tape Thickness (mm) Test Method: ASTM D3652	0.09 mm	View

Backing Thickness	2 mil	View

Test Method: ASTM D3652

Typical Performance Characteristics

Property	Values	Additional Information
Tensile Strength	101.5 N/cm	View

Test Method: ASTM D3759

180° Peel Adhesion	3.8 N/cm	View

Test Method: ASTM D3330

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

180° Peel Adhesion	35 oz/in	View

Test Method: ASTM D3330

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

Tensile Strength	928 oz/in	View

Test Method: ASTM D3759

Elongation at Break (%)	140 %	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% R.H. in the original carton.
To obtain best performance, use this product within 24 months from date of manufacture.

Bottom Matter

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Trademarks

3M is a trademark of 3M Company.

Handling/Application Information

Application Examples

- 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.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40070574/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=8902

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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