



Polyester Tapes

8901 • 8902 • 8905

Technical Data

May, 2017

Product Description 3M™ Polyester Tapes 8901, 8902, and 8905 are all made with strong polyester backing and silicone adhesive, allowing them 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 Construction	Backing	Adhesive	Color	Standard Roll Length
	Polyester	Silicone	Blue	72 yds. (65.8 m)

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

	3M™ Polyester Tapes				ASTM
	8901	8902	8905		Test Method
Adhesion to Steel:	29 (32)	35 (38)	26 (28)	oz./in. (N/100mm)	D-3330
Tensile Strength :	26 (455)	58 (1015)	136 (2380)	lbs./in. (N/100mm)	D-3759
Elongation at Break:	115	140	200	%	D-3759
Total Thickness:	2.4 (0.06)	3.4 (0.09)	6.4 (0.16)	mils (mm)	D-3652
Backing Thickness:	0.9 (0.02)	2.0 (0.05)	4.9 (0.12)	mils (mm)	D-3652
Temperature Use Range:	400 (204)	400 (204)	400 (204)	Up to °F (°C)	

- 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.

- 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.

3M™ Polyester Tapes

8901 • 8902 • 8905

Application Ideas
(continued)

- 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.

Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.

Shelf Life

To obtain best performance, use this product within 24 months from date of manufacture.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer

Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

ISO 9001

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



Industrial Adhesives and Tapes Division

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550 • 877-369-2923 (Fax)
www.3M.com/iatd

3M is a trademark of 3M Company.
Printed in U.S.A.
©3M 2017 (5/17)