



3M™ Polyester Tapes 8901, 8902, 8905

Product Data Sheet

February 2012
Supersedes: July 2011

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.

Key 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.
- 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.

Physical Properties

Adhesive Type	Silicone
Backing	Polyester
Colour	blue

Performance Characteristics

	8901	8902	8905
Adhesion to Steel (ASTM D-3330)	3.1 N/cm	4.0 N/cm	2.8 N/cm
Tensile Strength (ASTM D-3759)	45 N/cm	72 N/cm	192 N/cm
Elongation (ASTM D-3759)	115%	110%	115%
Total Thickness (ASTM D-3652)	0.06 mm	0.08 mm	0.16 mm
Backing Thickness (ASTM D-3652)	0.02 mm	0.05 mm	0.12 mm
Temperature Use Range (Up to °C)	204	204	204

Storage Store in clean dry place. Temperature of 21 °C and 50 percent relative humidity are recommended.

Shelf Life 3M Polyester Tapes 8901, 8902 and 8905 have a shelf life of 12 months from date of dispatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity.

For Additional Information To request additional product information, go to www.3M.be/bonding or www.3M.nl/bonding

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