



# Polyester Tapes

8901 • 8902 • 8905

## Technical Data

June, 2011

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Description</b> | 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. |
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| <b>Product Construction</b> | <b>Backing</b> | <b>Adhesive</b> | <b>Color</b> | <b>Standard Roll Length</b> |
|-----------------------------|----------------|-----------------|--------------|-----------------------------|
|                             | Polyester      | Silicone        | Blue         | 72 yds. (65.8 m)            |

| <b>Typical Physical Properties</b> | <b>Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.</b> |            |            |                    |             |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|--------------------|-------------|
|                                    | 3M™ Polyester Tapes                                                                                                                                              |            |            | ASTM               |             |
|                                    | 8901                                                                                                                                                             | 8902       | 8905       |                    | Test Method |
| Adhesion to Steel:                 | 29 (31)                                                                                                                                                          | 37 (40)    | 26 (28)    | oz./in. (N/100mm)  | D-3330      |
| Tensile Strength :                 | 26 (455)                                                                                                                                                         | 46 (805)   | 110 (1920) | lbs./in. (N/100mm) | D-3759      |
| Elongation at Break:               | 115                                                                                                                                                              | 100        | 115        | %                  | D-3759      |
| Total Thickness:                   | 2.4 (0.061)                                                                                                                                                      | 3.5 (0.08) | 6.5 (0.16) | mils (mm)          | D-3652      |
| Backing Thickness:                 | 0.9 (0.02)                                                                                                                                                       | 2.0 (0.05) | 5.0 (0.12) | mils (mm)          | D-3652      |
| Temperature Use Range:             | 400 (204)                                                                                                                                                        | 400 (204)  | 400 (204)  | Up to °F (°C)      |             |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Features</b> | <ul style="list-style-type: none"><li>• Polyester films offer excellent thermal, abrasion, and chemical resistance while maintaining their flexibility.</li><li>• Silicone adhesives offer high heat resistance compared to many rubber and acrylic adhesives, reducing failure due to softening, oozing and adhesive transfer.</li><li>• Silicone adhesives adhere well to tough-to-stick-to surfaces like silicone liners and fixtures coated with mold release.</li><li>• Removes cleanly from stainless steel, anodized aluminum and glass after a 5 hour. bake cycle at 350°F (177°C).</li><li>• Variety of tape thicknesses offered allows uses for multiple applications.</li></ul> |
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| <b>Application Ideas</b> | <ul style="list-style-type: none"><li>• Splicing of silicone treated webs.</li><li>• Masking parts for powder coat painting</li><li>• Holding parts or sealing vacuum bags during processing</li><li>• Masking edges of overlap seams in metal bonding process where excess adhesive flows onto tape. Minimizes clean-up on tape removal.</li></ul> |
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# 3M™ Polyester Tapes

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## 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.

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## Storage

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

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## Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture.

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## 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.

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## Product Use

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ISO 9001:2008

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