



# **Technical Data Sheet**

3M<sup>™</sup> Polyester Tape 8905





Last Revision Date: May, 2017

**English** 

Regulatory Info/SDS

## **Product Description**

3M™ Polyester Tapes 8905 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 Performance Characteristics**

Attribute Name	Test Method	Value	
180° Peel Adhesion	ASTM D3330	2.8 N/cm (26 oz/in) <sup>1</sup>	

<sup>1 12</sup> in/min (300 mm/min)

# Typical Physical Properties

Attribute Name	Test Method	Value	
Color		Blue	
Adhesive Type		Silicone	
Backing		Polyester	
Backing Thickness	ASTM D3652	0.12 mm (4.9 mil)	
Total Tape Thickness	ASTM D3652	0.16 mm (6.4 mil)	

# **Typical Performance Characteristics**

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	2.8 N/cm (26 oz/in) <sup>1</sup>
Elongation at Break	ASTM D3759		200 %
Tensile Strength	ASTM D3759		238 N/cm (2176 oz/in)
Long Term Temperature		204 %C (400 %E) 3	
Resistance			204 °C (400 °F) <sup>2</sup>

<sup>1 12</sup> in/min (300 mm/min)

#### **Handling/Application Information**

#### Application Examples

<sup>&</sup>lt;sup>2</sup> Long Term (day, weeks)

- 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.

# 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.

#### **Available Sizes**

Attribute Name	Value
Standard Roll Length	65.8 m (72 yd)

#### <u>Information</u>

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#### **ISO Statement**

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