

# 3M

## Polyester Film Tape

### 850

#### Technical Data

August, 2013

**Product Description** 3M™ Polyester Film Tape 850 can generally be used for splicing and applications where chemical resistance and/or clean removal is necessary. The silver backing is a transparent polyester with a thin layer of aluminum.

Product Construction	Backing	Adhesive	Color	Standard Roll Length
	Polyester	Acrylic	Transparent, Red, Black, White, Silver	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.		
			ASTM Test Method
Adhesion to Steel:	30 oz./in. width (33 N/100 mm)		D-3330
Silver:	42 oz./in. width (46 N/100 mm)		D-3330
Tensile Strength at Break:	28 lbs./in. width (491 N/100 mm)		D-3759
Elongation at Break:	120%		D-3759
Backing Thickness:	0.9 mils (0.02 mm)		D-3652
Total Thickness:	1.9 mils (0.05 mm)		D-3652
Water Vapor Transmission Rate:	1.6 gms, H2O/100 sq. in./24 hrs. (24.8 g/m2/24 hrs.)		D-3833
	Silver: 0.9 gms, H2O/100 sq. in./24 hrs. (7.75 g/m2/24 hrs.)		D-3833
Temperature Use Range:	-60 - 300°F (-50 - 150°C)		

Features	
	<ul style="list-style-type: none"> <li>• Prolonged exposure to sunlight or hot caustics will cause backing to become brittle and lose tensile strength.</li> <li>• Thin, high strength polyester film helps reduce failures due to breakage while meeting low caliper requirements.</li> <li>• Chemical and solvent resistance to help reduce rejects produced from chemical and solvent attack.</li> <li>• Abrasion resistant to help protect surfaces from abrasion and rough handling.</li> <li>• Variety of colors offered when easy detection is required.</li> </ul>

# 3M™ Polyester Tape 850

<b>Application Ideas</b>	<b>Transparent, Red, Black, White:</b> <ul style="list-style-type: none"><li>• Splicing and web defect marking.</li><li>• Sealing, labeling, and protecting.</li><li>• Positive film striping (transparent).</li><li>• Decorative edging.</li><li>• Tape hinge.</li></ul> <b>Silver:</b> <ul style="list-style-type: none"><li>• Post splicing movie film.</li><li>• Deflect flagging where reflective sensing is required.</li><li>• Decorative striping and die cutting.</li><li>• Decorative edging.</li></ul>
<b>Storage</b>	Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.
<b>Shelf Life</b>	To obtain best performance, use this product within 18 months from date of manufacture.
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**ISO 9002**

This Industrial Adhesives and Tapes Division product was manufactured under a quality system registered to ISO 9001:2000 standards.



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