# **3M Polyester Film Tape**850

#### **Technical Data**

#### **Product Description**

3M<sup>TM</sup> 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 and the gold is a pigmented polyester with a thin layer of aluminum.

#### **Product Construction**

Backing	Adhesive	Color	Standard Roll Length
Polyester	Acrylic (transparent or pigmented)	Transparent, Red, Black, White, Silver, Gold	72 yds. (66 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.

		<b>ASTM Test Method</b>
Adhesion to Steel:	30 oz./in. width (33 N/100 mm)	D-3330
Silver and Gold:	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 mil (0.02 mm)	D-3652
Total Tape Thickness:	1.9 mils (0.05 mm)	D-3652
Water Vapor Transmission Rate:	1.6 gms. $H_2O/100$ sq. in./24 hrs. (24.8 g/m <sup>2</sup> /24 hrs.)	D-3833
Silver and Gold:	$0.9 \text{ gms. H}_2\text{O}/100 \text{ sq. in.}/24 \text{ hrs.}$ (7.75 g/m <sup>2</sup> /24 hrs.)	D-3833
Outgassing (Transparent Tape):	%TML .61, %CVCM .08	

#### **Features**

- Prolonged exposure to sunlight or hot caustics will cause backing to become brittle and lose tensile strength.
- Thin, high strength polyester film helps reduce failures due to breakage while meeting low caliper requirements.
- Chemical and solvent resistance to help reduce rejects produced from chemical and solvent attack.
- Abrasion resistant to help protect surface from abrasions and rough handling.

### 3M<sup>™</sup> Polyester Film Tape

850

#### **Application Ideas**

#### Transparent, Red, Black, White:

- Splicing and web defect marking.
- Sealing, labeling and protecting.
- Positive film striping (3M<sup>TM</sup> Polyester Film Tape 850 transparent).
- Decorative edging.
- Tape hinge.

#### **Silver and Gold:**

- Post splicing movie film.
- Deflect flagging where reflective sensing is required.
- Decorative striping and die cutting.
- · Decorative edging.

#### Storage

Store under normal conditions of  $60^{\circ}$  to  $80^{\circ}$ F ( $16^{\circ}$  to  $27^{\circ}$ C) and 40 to 50% R.H. in the original carton.

#### **Shelf Life**

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

#### **Product Use**

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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