



## Technical Data Sheet

### 3M™ Polyester Film Tape 850



[Product Details](#)



[Regulatory Info/SDS](#)

#### **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 Features**

- 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 surfaces from abrasion and rough handling.
- Variety of colors offered when easy detection is required.

#### **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 Physical Properties**

Attribute Name	Test Method	Value
Color		Transparent, Red, Black, White
Adhesive Type		Acrylic
Backing		Polyester
Backing Thickness	ASTM D3652	0.02 mm (0.9 mil)
Water Vapor Transmission	ASTM D3833	24.8 g/m <sup>2</sup> /24 h (1.6 g/100 in <sup>2</sup> /24 h)

#### **Typical Performance Characteristics**

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	23 °C (73 °F)	3.3 N/cm (30 oz/in) <sup>1</sup>
Elongation at Break	ASTM D3759		120 %
Tensile Strength	ASTM D3759		49 N/cm (28 lb/in)
Long Term Temperature Resistance			150 °C (300 °F) <sup>2</sup>
Minimum Long Term Temperature Resistance			-50 °C (-60 °F) <sup>2</sup>

<sup>1</sup> 304 mm/min (12 in/min)

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

**Handling/Application Information**

**Application Examples**

- Splicing and web defect marking.
- Sealing, labeling, and protecting.
- Positive film striping (transparent).
- Decorative edging.
- Tape hinge.

**Storage and Shelf Life**

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 18 months from date of manufacture.

**Available Sizes**

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

**Information**

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**ISO Statement**

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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