



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 ² /24 h (1.6 g/100 in ² /24 h)

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	3.3 N/cm (30 oz/in) ¹
Elongation at Break	ASTM D3759		120 %
Tensile Strength	ASTM D3759		49 N/cm (448 oz/in)
Long Term Temperature Resistance			150 °C (300 °F) ²
Minimum Long Term Temperature Resistance			-50 °C (-60 °F) ²

¹ 12 in/min (300 mm/min)

² 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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