

August, 2013

## 3M™ Polyester Film Tape 850

### 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

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



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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

Property	Values		Method
Color	Transparent, Red, Black, White		
Backing Thickness	0.02 mm	0.9 mil	ASTM D3652
Backing	Polyester		
Adhesive	Acrylic		
Water Vapor Transmission Rate	24.8 g/m²/24 hr	1.6 g/100 in²/24 hr	ASTM D3833

Typical Performance Characteristics

Property	Values		Method	Substrate
Peel Adhesion	3.3 N/cm	30 oz/in	ASTM D3330	Stainless Steel
Tensile Strength	49 N/cm	448 oz/in	ASTM D3759	
Elongation at Break	120 %		ASTM D3759	
Temperature Use Range	-50 to 150 °C	-60 to 300 °F		

Available Sizes

Property	Values	
Standard Roll Length	65.8 m	72 yd

Handling/Application Information

Application Ideas

- 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 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material. To obtain best performance, use this product within 18 months from date of manufacture.

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## Information

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## Trademarks

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## References

### Safety Data Sheet (SDS)

[https://www.3m.com/3M/en\\_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en\\_US&co=ptn&q=850](https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=850)

## Family Group

	850	850 Silver
Color	Transparent, Red, Black, White	Silver
Backing Thickness (mm)	0.02	0.02
Backing	Polyester	Polyester
Adhesive	Acrylic	Acrylic
Tensile Strength (N/cm)	49	49

## 3M™ Polyester Film Tape 850

### ISO Statement

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



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