

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/m <sup>2</sup> /24 hr	1.6 g/100 in <sup>2</sup> /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

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## ISO Statement

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



Industrial Adhesives and Tapes Division  
3M Center  
St. Paul, MN 55144-1000  
800-362-3550  
[www.3M.com](http://www.3M.com)

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