



3M

Polyester Film Tape 850

Technical Data

August, 2013

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 Construction	Backing	Adhesive	Color	Standard Roll Length
	Polyester	Acrylic	Transparent, Red, Black, White, Silver	72 yds. (65.8 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.

		ASTM Test Method
Adhesion to Steel:	30 oz./in. width (33 N/100 mm)	D-3330
Silver:	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 mils (0.02 mm)	D-3652
Total Thickness:	1.9 mils (0.05 mm)	D-3652
Water Vapor Transmission Rate:	1.6 gms, H ₂ O/100 sq. in./24 hrs. (24.8 g/m ² /24 hrs.)	D-3833
	Silver: 0.9 gms, H ₂ O/100 sq. in./24 hrs. (7.75 g/m ² /24 hrs.)	D-3833
Temperature Use Range:	-60 - 300°F (-50 - 150°C)	

- 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.

3M™ Polyester Tape 850

Application Ideas	Transparent, Red, Black, White: <ul style="list-style-type: none">• Splicing and web defect marking.• Sealing, labeling, and protecting.• Positive film striping (transparent).• Decorative edging.• Tape hinge. Silver: <ul style="list-style-type: none">• 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° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.
Shelf Life	To obtain best performance, use this product within 18 months from date of manufacture.
Technical Information	The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.
Product Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method or application.
Warranty, Limited Remedy, and Disclaimer	Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.
Limitation of Liability	Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

ISO 9002

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



Industrial Business
Industrial Adhesives and Tapes Division
3M Center, Building 220-3S-06
St. Paul, MN 55144-1000
800-362-3550 • 577-369-2923 (Fax)
www.3M.com/industrial

Recycled Paper
40% pre-consumer
10% post-consumer

3M is a trademark of 3M Company.
Printed in U.S.A.
©3M 2012