



3M

Polyester Film Tape

850

Technical Data

March, 2008

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 and the gold is a pigmented polyester with a thin layer of aluminum.

Product Construction	Backing	Adhesive	Color	Standard Roll Length
	Polyester	Acrylic (transparent or pigmented)	Transparent, Red, Black, White, Silver, Gold	72 yds. (66 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 and Gold:	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 mil (0.02 mm)	D-3652
Total Tape 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 and Gold:	0.9 gms. H ₂ O/100 sq. in./24 hrs. (7.75 g/m ² /24 hrs.)	D-3833
Temperature Use Range:	-60°F - 300°F (-50°C - 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 surface from abrasions and rough handling.



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Application Ideas

Transparent, Red, Black, White:

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

Silver and Gold:

- 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 50% R.H. in the original carton.

Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture.

Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



Industrial Adhesives and Tapes Division

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Printed in U.S.A.
©3M 2008 70-0707-7643-3 (3/08)