



Transparent and Colored Polyester Film Tapes

850

Technical Data

September, 1994

Product Description A polyester film tape that can generally be used for splicing and applications where chemical resistance and/or clean removal is necessary.

Construction	Backing	Adhesive	Color	Standard Roll Length
	Polyester	Acrylic (transparent or pigmented)	Transparent, Red, Black, White	72 yds. (66 m)

Typical Physical Properties and Performance Characteristics

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:	29 oz./in. width (31.5 N/100 mm)	D-3330
Tensile Strength at Break:	28 lbs./in. width (491 N/100 mm)	D-3759
Elongation at Break:	140%	D-3759
Backing Thickness:	.9 mils (.02 mm)	D-3652
Total Tape Thickness:	1.9 mils (.05 mm)	D-3652
Moisture Vapor Transmission Rate:	1.3 gms H ₂ O/100 sq. in./24 hrs. (24.8 g/m ² /24 hrs.)	
Outgassing: (850 Transparent Tape):	% TML .61, %CVCM .08	

General Information

- Not recommended to exceed one year of storage under normal storage conditions at 70°F (21°C) and 50% R.H.
- Prolonged exposure to sunlight or hot caustics will cause backing to become brittle and lose tensile strength.
- 850 transparent tape can be qualified to meet Fed. Spec. L-T-100B.

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Application Ideas

- Splicing and web defect marking
- Edging
- Decoration
- Tape hinge
- Sealing, labeling and protecting
- Positive film stripping (850 Transparent Tape)

Features

- Polyester film

Advantages

- Thin, high strength
- High moisture resistance
- Chemical and solvent resistance
- Wide temperature range resistance: -60°F to 350°F (-50°C to 177°C) for short periods of time.
- Abrasion resistance
- Firm, long aging

Benefits

- Helps reduce failures due to breakage while meeting low caliper requirements
- Helps protect against moisture penetration
- Helps reduce rejects produced from chemical and solvent attack
- Helps reduce failure caused by film shrinkage or embrittlement
- Helps provide surface protection from abrasion and rough handling
- Helps reduce failure caused by adhesive oozing and loss of tack

For Additional Information

To request additional product information or to arrange for sales assistance, call 612-733-1441. Address correspondence to: 3M Industrial Tape and Specialties Division, 3M Center, Building 220-8E-04, St. Paul, MN 55144-1000. Our fax number is 612-733-9175. In Canada, phone: 1-519-451-2500. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-0400.

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ISO 9002

This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



Industrial Tape and Specialties Division

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Printed in U.S.A.
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