

# 3M

## Polyester Tape

### 853

Technical Data

November, 1994

**Product Description** A polyester tape for many applications where solvent resistant and/or high shear properties are desired.

Construction	Backing	Adhesive	Color	Standard Roll Length
	Polyester	Acrylic	Transparent	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:	48 oz./in. width (52 N/100 mm)	D-3330
Tensile Strength at Break:	24 lbs./in. width (421 N/100 mm)	D-3759
Elongation at Break:	102%	D-3759
Backing Thickness:	.9 mils (.02 mm)	D-3652
Total Thickness:	2.2 mils (.05 mm)	D-3652
Water Vapor Transmission Rate:	1.6 gms H <sub>2</sub> O/100 sq. in./24 hrs. (24.8 g/m <sup>2</sup> /24 h)	

#### General Information

- Not recommended to exceed one year of storage under normal conditions at 70°F (21°C) and 50% R.H.
- Can be qualified to meet Fed. Spec. L-T-100B, Type I.
- Printable on the adhesive side and by the "Print Seal" method on the backing side.

**Note:** When laminated to printed 3M™ brand 852 silver metalized polyester tape, 853 tape can be qualified to meet the requirements of MIL-T-9906A, Amend. 1 for non-corrosive, heat, cold and solvent resistant identification marking tape in aircraft and missiles.

# Polyester Tape

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## Application Ideas

- High tension splicing applications
- Quality protective laminate
- Solvent resistant masking
- Tape hinge

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## Features

- Polyester backing
- Acrylic adhesive

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## Advantages

- Remains flexible at -60°F (-50°C) and dimensionally stable to 350°F (177°C)
- Thermal resistance
- High chemical and solvent resistance
- Firm, long aging, non-yellowing

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## Benefits

- Helps reduce failure due to embrittlement
- Helps reduce failure due to film shrinkage and adhesive exposure
- Helps protect against failure due to undercutting or adhesive softening
- Helps reduce failure caused by adhesive oozing and loss of tack

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## For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-227-5085. 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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## Important Notice

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## Limitation of Remedies and Liability

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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.

**3M**

### Industrial Tape and Specialties Division

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Printed in U.S.A.  
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