

3M

Circuit Plating Tape

851

Technical Data

Product Description 3M™ Circuit Plating Tape 851 is a green polyester film tape with a unique conformable adhesive for printed circuit board masking during electroplating.

Product Construction	Backing	Adhesive	Color	Standard Roll Length
	Transparent polyester	Blended silicone and rubber	Transparent green	144 yds. (132 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:	29 oz./in. width (27 N/100 mm)	D-3330
Tensile Strength at Break:	26.8 lbs./in. width (368 N/100 mm)	D-3759
Elongation at Break:	124%	D-3759
Backing Thickness:	0.9 mil (0.02 mm)	D-3652
Total Tape Thickness:	3.6 mils (0.10 mm)	D-3652

- Features**
- Polyester backing reduces stretch and recovery of tape associated with uneven stop-off line.
 - Thick adhesive coating reduces undercutting because adhesive blocks out solutions between fingers.
 - Specially designed adhesive that generally performs better when no ovens are used to heat tape and boards.

- Application Techniques**
- Low-stretch polyester film can be applied by machine or by hand.
 - Tape must be firmly pressed down by equipment with rubber-covered rollers or a rubber-covered platen press. Hand rolling usually does not provide enough pressure. A vivid outline of the circuit leads usually indicates adequate pressure was used.
 - Solvent* clean-up of the board is recommended to facilitate subsequent soldering.
*Be sure to follow the manufacturer's precautions and directions for use when using solvents.

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Application Ideas

- For masking printed circuit boards during solder stripping and precious metal plating of fingers.
- Splicing of silicone coated papers.

Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 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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ISO 9001:2000

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

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