



# 851 Greenback Printed Circuit Board Tape

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## Product Data Sheet

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Updated : March 1996  
Supersedes : October 1993

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**Product Description**      A green polyester film tape with a special conformable adhesive which resists plating bath chemicals.

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**Physical Properties**  
Not for specification purposes

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|--------------------------------|------------------------------------------------------------------------------------------------------------------|--|
| <b>Adhesive Type</b>           | Special blend of Silicone and Rubber                                                                             |  |
| <b>Backing</b>                 | Transparent polyester                                                                                            |  |
| <b>Thickness</b> (ASTM D-3652) | 100 µm                                                                                                           |  |
| <b>Tape Colour</b>             | Translucent green                                                                                                |  |
| <b>Shelf Life</b>              | 12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity |  |

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**Performance Characteristics**  
Not for specification purposes

|                                                               |             |  |
|---------------------------------------------------------------|-------------|--|
| <b>Adhesion to Stainless Steel</b> <small>ASTM D-3330</small> | 2.7 N/10mm  |  |
| <b>Tensile Strength</b> <small>ASTM D-3759</small>            | 36.8 N/10mm |  |
| <b>Elongation at Break</b> <small>ASTM D-3759</small>         | 56 %        |  |
| <b>Temperature Range</b><br>Maximum                           | 90 °C       |  |

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851 Greenback Printed Circuit  
Board Tape

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|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Additional Product Information</b> | Shelf life - important to rotate inventory.                                                                                                                         |                                                                                                                                                                                                                                                      |
| <b>Application Techniques</b>         | <p>Low stretch polyester film for machine, as well as hand application.</p> <p>Solvent clean-up of the board is recommended to facilitate subsequent soldering.</p> | <p>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 indicates adequate pressure was used.</p> |
| <b>Applications</b>                   | For masking printed circuit boards during solder stripping and precious metal plating of fingers.                                                                   | Splicing of silicone coated papers.                                                                                                                                                                                                                  |

| FEATURES                     | ADVANTAGES                                                                                                                                       | BENEFITS                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Polyester backing.           | Reduces stretch and recovery of tape and associated uneven stop-off line.                                                                        | Saves money by reducing number of reject boards.                                    |
| Thick adhesive coating.      | Reduces undercutting because adhesive blocks out solutions between fingers.                                                                      | Saves money by reducing reject boards.                                              |
| Specially designed adhesive. | <p>Tape generally performs better when no ovens are used to heat tape and boards.</p> <p>Reduces adhesive transfer to printed circuit board.</p> | <p>Saves energy and labour costs.</p> <p>Saves money by reducing clean-up time.</p> |

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



#### Specialty Tapes & Adhesives

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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