

# 3M™ Polyester Tape 854

## Product Description

3M™ Polyester Tape 854 is an opaque, cream colored polyester tape with excellent chemical resistance for precious metal plating, especially gold.

## Features and Benefits

- Excellent chemical resistance in precious metal plating, especially gold
- Polyester backing helps reduce failure from backing breakdown and shrinkage
- Flexible backing helps reduce failure from cracking
- Synthetic adhesive helps reduce failure from splice slippage because of good chemical resistance
- Excellent results in sodium hydroxide etching of aluminum
- Polyethylene tape core instead of cardboard

## Product Construction/Material Description

3M™ Polyester Tape 854	
Color	Cream
Backing	Polyester
Adhesive	Rubber
Standard Roll Length	66 m (72 yd)

## Applications

- Chemical resistance in precious metal plating, especially gold.
- Protection in sodium hydroxide etching of aluminum.
- Protection of substrates during chemical milling.
- General splicing.

## 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.

3M™ Polyester Tape 854		
Property	Method	Value
Adhesion to Steel	D-3330	59 oz/in width (64 N/100 mm)
Tensile Strength at Break	D-3579	29 lb/in width (509 N/100 mm)
Elongation at Break	D-3579	123%
Backing Thickness	D-3652	1.0 mil (0.03 mm)
Total Tape Thickness	D-3652	2.7 mil (0.065 mm)
Water Vapor Transmission Rate	—	1.6 gm H <sub>2</sub> O/100 sq in/24 hr (24.8 g/m <sup>2</sup> 24 hr)

## Storage and Shelf Life

The shelf life of 3M™ Polyester Tape 854 is 18 months from the date of manufacture when stored in original cartons at 21°C (70°F) and 50% relative humidity.

## Regulatory

For regulatory information about this product, contact your 3M representative.

## Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

## Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

## Warranty, Limited Remedy, and Disclaimer

Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

## Limitation of Liability

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



### Electronics Materials Solutions Division

3M Center, Building 225-3S-06  
St. Paul, MN 55144-1000  
1-800-251-8634 phone  
651-778-4244 fax  
[www.3M.com/electronics](http://www.3M.com/electronics)

3M is a trademark of 3M Company.  
Please recycle.  
© 3M 2014. All rights reserved.  
60-5002-0753-9

