

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 ₂ O/100 sq in/24 hr (24.8 g/m ² 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.

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