



Lined Electroplating/ Anodizing Tape

495

Technical Data

August, 1995

Product Description

A conformable and abrasion resistant plastic film tape coated with a rubber-resin pressure-sensitive adhesive laminated to a silicone-coated release liner. 495 tape is ideal for masking various surfaces during electroplating and anodizing operations. 495 tape is the lined version of 484 Electroplating/Anodizing Tape.

Construction

Backing	Adhesive	Color	Liner	Standard Roll Length
Transparent vinyl	Rubber-resin	Yellow	White Kraft paper coated on one side with a silicone release agent	36 yds. (33 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:	20 oz./in. width (22 N/100 mm)	D-3330
Tensile Strength at Break:	20 lbs./in. width (350 N/100 mm)	D-3759
Elongation at Break:	220%	D-3759
Liner Thickness:	2.5 mils (.06 mm)	D-3652
Backing Thickness:	5.7 mils (.14 mm)	D-3652
Tape Thickness:	7.2 mils (.18 mm)	D-3652

General Information

- Excellent resistance to most chemicals used in electroplating/anodizing operations.
- Prolonged exposure of tape to elevated temperatures (above 170°F/77°C) and hot caustics may cause weakening of the adhesive bond.
- While 495 tape resists most common solvents, care should be taken to avoid ketones, chlorinated hydrocarbons, and esters, found in many lacquer thinners, degreasers, paint strippers, etc. which may cause the tape backing to swell or curl.
- The shelf life for 495 tape is 18 months from the date of manufacture when stored in a clean, dry environment between 60-80°F (15-27°C) and 40-50% relative humidity.

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Application Ideas

- Selective masking of metal parts during electroplating of various metals.
- Protection of selective surfaces during light-duty sandblasting or chemical etching.
- Holding semi-conductor wafers during polishing operations.

Features	Advantages	Benefits
• Resistant to most electroplating chemicals	• Less undercutting	• Helps save money because of fewer rejections
• Abrasion resistant backing	• Helps protect parts from processing scratches	• Helps save money through fewer rejects
• Conformable backing	• Follow contours	• Helps save money by reducing reworks
• Lower adhesion than many electroplating tapes	• Easy removal	• Helps reduce labor cost and increase production rates
	• Less distortion or parts when tape is removed	
• Silicone coated release liner	• Helps protect tape from contamination	• Helps save money due to fewer rejections

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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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

3M Center, Building 220-7E-01
St. Paul, MN 55144-1000



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