



Technical Data Sheet

3M™ Electroplating Tape 470



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ Electroplating Tape 470 is a conformable and abrasion-resistant vinyl tape with excellent resistance to most chemicals used in typical electroplating processes.

Product Features

- Excellent resistance to most chemicals used in typical electroplating operations.
- Prolonged exposure to elevated temperatures (above 250°F/121°C) and hot caustics may cause weakening of the adhesive bond.
- Resists most common solvents, care should be taken to avoid ketones, chlorinated hydrocarbons, and esters, found in lacquer thinners, degreasers, paint strippers, etc., which may cause the backing to swell or curl.
- Vinyl backing is conformable.
- Backing accepts marker ink and is printable in using the thermal transfer process.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Attribute Name	Test Method	Value
Color		Tan
Adhesive Type		Rubber
Backing		Vinyl
Backing Thickness	ASTM D3652	0.16 mm (6.3 mil)
Total Tape Thickness	ASTM D3652	0.18 mm (7.1 mil)
Liner Thickness		0.15 mm (6.1 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	23 °C (73 °F)	4 N/cm (37 oz/in) ¹
Elongation at Break	ASTM D3759		180 %
Tensile Strength	ASTM D3759		35 N/cm (20 lb/in)
Long Term Temperature Resistance			121 °C (250 °F) ²

¹ 304 mm/min (12 in/min)

² Long Term (day, weeks)

Handling/Application Information

Application Examples

- Masking during many electroplating operations, including both flat strip and overlapping masks.
- Wrapping, patching, coated racks and masking many irregular surfaces.
- Labeling.
- Sealing containers from water intrusion.

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 18 months from date of manufacture.

Available Sizes

Attribute Name	Value
Standard Roll Length	33 m (36 yd)

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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