



# **Technical Data Sheet**

3M™ Electroplating Tape 470

English-US **Last Revision Date:** June, 2024

Supersedes: February, 2011





Product Details

s 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  | 22 °C (72 °F)     | 4 N/cm (37 oz/in) 1          |
| Elongation at Break   | ASTM D3759  |                   | 180 %                        |
| Tensile Strength      | ASTM D3759  |                   | 35 N/cm (320 oz/in)          |
| Long Term Temperature |             | 121 °C (250 °E) 2 | 121 °C (250 °F) <sup>2</sup> |
| Resistance            |             |                   | 121 C (230 F) -              |

<sup>1 12</sup> in/min (300 mm/min)

<sup>&</sup>lt;sup>2</sup> 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**

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