

# Technical data sheet



Product: 92

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: ELEKTRO

Article group: KLEBEBAND

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## 3M POLIMIDE FILM ELECTRICAL TEPE 92

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## 3M™ Polyimide Film Electrical Tape 92 with Silicone Adhesive

### Data Sheet

May 2021

#### Product Description

3M™ Polyimide Film Electrical Tape 92 is an amber UL recognized flame retardant, 2.75-mil (0.070 mm) thick tape composed of a 1-mil (0.025 mm) thick polyimide film backing coated on one side with a non-corrosive, thermosetting silicone pressure-sensitive adhesive.

- Commonly used in wrapping coils, capacitors, wire harnesses, transformers and anchoring leads
- Commonly used in printed circuit board assembly as a solder masking tape
- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 180°C (356°F) per UL listing

#### Properties

Physical Properties	Value Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
Color - Visual	Amber	Dielectric Breakdown <sup>1</sup> - Minimum	6000 V
Adhesive	Thermosetting Silicone	Electrolytic Corrosion Factor <sup>3</sup>	1.0
Backing	Polyimide Film	Insulation Resistance <sup>1</sup> - Minimum	1x10 <sup>12</sup> Ω
Flame Retardant <sup>2</sup>	Pass		
Mechanical Properties	Value Imperial (Metric)		
Backing Thickness - Nominal	1 mil (0.025 mm)		
Total Thickness <sup>1</sup>	2.75 +/- 0.75 mils (0.070 +/- 0.019 mm)		
Adhesion to Steel <sup>1</sup> - Minimum	18 oz/in (2.0 N/cm)		
Breaking Strength <sup>1</sup> - Minimum	20 lb/in (35 N/cm)		
Elongation <sup>1</sup> - Minimum	40%		

Notes:

1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. UL Recognized Flame Retardant per UL510A Standard
3. 3M Test Method ETM-54001 - 1.0 equates to no corrosion observed

#### Agency Approvals & Self Certifications

- UL Component Recognized: UL510A Standard, Category OANZ2, File No. E17385
- For Regulatory information including RoHS, REACH, please visit [www.3M.com/regs](http://www.3M.com/regs)

#### Shelf Life & Storage

This product has a 5-year shelf life (from date of manufacture) when stored in humidity-controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).

#### Availability

3M™ Polyimide Film Electrical Tape 92 available from 3M authorized distributors / converters

Also available from [3M.com/oem](http://3M.com/oem) or call 1.800.245.3573.

# **3M™ Polyimide Film Electrical Tape 92 with Silicone Adhesive**

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