# 3M™ Polyimide Film Electrical Tape 92

Polyimide Film Tape with Silicone Pressure Sensitive Adhesive

**Data Sheet** **February 2017**

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| **Description** | 3M™ Polyimide Film Electrical Tape 92 is a 1-mil polyimide film backing with silicone adhesive. Its silicone pressure-sensitive adhesive allows it to be used at 356ºF (180ºC), and it is UL 510 Flame Retardant. Like most insulated tapes, from 3M, Tape 92 is available in standard and custom widths and lengths. The standard length is 36 yards, and can be cut to widths ranging from 1/4" to 23". Longer lengths up to several times normal length are possible, dependent upon width.--Check with Customer Service for details. |
| **Agency Approvals & Self Certifications** | UL Recognized component listing not to exceed 180°C (356°F), Meets flame retardant requirements of UL510, Product Category OANZ2, and 3M File No. E17385<br><br>UL File Number E17385 A and B, Guide OANZ2. Underwriters Laboratories (UL) Recognized products have been evaluated for use as components of end-product equipment that is listed or classified by UL. To achieve Underwriters Laboratories recognition, component construction must meet UL specifications and conditions of acceptability for proper and safe use of the component or product.<br><br>Product Category OANZ2, File E17385<br><br>For RoHS information, please visit www.3M.com/ROHS |
| **Applications** | 3M 92 Tape is used for high-temperature electrical applications in which a tough, thin insulating material is required for wrapping coils, transformers, capacitors, wire harnesses, and for anchoring leads / terminal boards. It also is used in printed circuit board assembly as a wave solder masking tape. |
| **Specifications** | 3M 92 Tape is a polyimide film with thermosetting silicone pressure-sensitive adhesive.<br><br>The tape shall be coated on one side with pressure-sensitive adhesive, which shall not require heat, moisture or other preparation prior to or subsequent to application. The adhesive coating shall be smooth and uniform and be free of lumps and bare spots. There shall be no separator between adjacent layers of the roll. The tape shall perform at a temperature of -40°F (-40°C) to 356°F (180°C) without substantial loss of tensile or electrical properties |

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**Typical Properties**

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

| **Physical Property (Test Method)** (ASTM D1000 unless noted) | **Typical Value** US units (metric) |
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| **Color** | Amber |
| **Adhesive** | Thermosetting Silicone |
| **Backing Thickness** | 1.0 mils (0,025 mm) |
| **Overall Thickness** | 3.0 mils (0,076 mm) |
| **Tensile Strength** | 30 lbs / inch width (53 N / 10 mm) |
| **Elongation (% at break)** | 55% minimum |
| **Electrolytic Corrosion Factor** (3M internal test method) | 1.0 |
| **Adhesion to Steel** | 25 oz / inch width (2,8 N / 10 mm) |
| **Comparative Tracking Index** (IEC Method 112) | CTI Group IIIb |
| **Printable** | Yes |
| **Dielectric Breakdown** | > 7,500 V |
| **Insulation Resistance** | > 1 x$10^6$ Megaohms |

**Shelf Life & Storage**

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

**Availability**

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-676-8381.

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