

3M™ Polyimide Film Electrical Tape 92

Polyimide Film Tape with Silicone Pressure Sensitive Adhesive

Data Sheet

January 2013

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 356°F (180°C), 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.

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

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.

Product Category OANZ2, File E17385

RoHS
2011/65/EC

"RoHS 2011/65/EU" means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

Applications 3M Tape 92 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™ Polyimide Film Electrical Tape 92 is a polyimide film with thermosetting silicone pressure-sensitive adhesive.

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

3M™ Polyimide Film Electrical Tape 92

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) |
|--|------------------------------------|
| 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 x10 ⁶ Ohms |

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.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture at the time of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

3M is a trademark of 3M Company.



Electrical Markets Division
6801 River Place Boulevard
Austin, TX 78726-9000
800.676.8381
Fax: 800.828.9329
www.3m.com/oem

Please recycle
© 3M 2013 All rights reserved
78-8124-4760-1 Rev D