

3M™ Electrical Tape 1046

Polyester Film/Glass Filament Scrim, Reinforced Backing with Thermosetting Rubber, Pressure-Sensitive Adhesive

Data Sheet

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Description

3M™ Electrical Tape 1046 is a polyester film/glass filament scrim tape coated with a thermosetting, pressure-sensitive rubber adhesive system. The polyester film/glass backing has excellent physical and electrical characteristics.

Agency Approvals & Self Certifications

UL recognized component listing not to exceed 130°C (266°F), 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.

RoHS 2002/95/EC



RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2002/618/EC, unless the substance is in an application that is exempt under RoHS. 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

The 1046 tape is especially suited for such applications as lead anchoring and banding of coils where high edge-tear resistance and low stretch under application tension are needed (primarily used in end-turn taping) .

- High Tensile Strength
- High Dielectric Strength
- Consistent Thickness
- Excellent Adhesion and Cohesive Strength
- UL Recognized Class B (130°C)
- Excellent Conformability

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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 Properties	Typical Value US units (metric)
Thickness	7.0 mils (0,177 mm)
Breaking Strength at Break	275 lbs/in (481 N/10 mm)
Elongation (% at break)	5%
Adhesion to Steel	50 oz/in (5.4 N/10 mm)

Electrical Property	Typical Value US units (metric)
Dielectric Breakdown	5500 V
Insulation Resistance	3x10 ³ megohms
Electrolytic Corrosion Factor (3M™)	1.0

Specifications

3M™ Electrical Tape 1046 is a Polyester Film-Backed Filament Scrim Tape with thermosetting rubber 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 266°F (130°C) without substantial loss of tensile or electrical properties.

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

This 1046 tape is available in standard and custom widths and lengths. Standard length is 60 yards. Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.676.8381.

Important Notice

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