

3M™ Electrical Tape 1039

Polyester Film/Glass Filament Reinforced Scrim
with Acrylic, Pressure-Sensitive Adhesive

Data Sheet

February 2012

Description

3M™ Electrical Tape 1039 is a polyester film/glass filament scrim tape coated with a pressure-sensitive acrylic adhesive system. The polyester film/glass backing has excellent physical and electrical characteristics. The back side of the tape has a special coating which allows for an even, controlled unwind. It also promotes permanent anchoring in application.

Agency Approvals & Self Certifications

UL recognized component listing not to exceed 130°C (266°F), Product Category OANZ2, and 3M File No. E17385

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 primary application for 1039 tape is holding down magnet wire, copper strips (sheets) and insulation materials during the demanding coil winding process. Other typical applications for 1039 tape include lead anchoring, banding of coils, lead tape anchoring and other uses where tensile strength is needed.

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

Authorized Distributor:



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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	35 oz/in (3,81 N/10 mm)

Electrical Property	Typical Value US units (metric)
Dielectric Breakdown	5500 V
Insulation Resistance	1x10 ⁵ megohms
Electrolytic Corrosion Factor (3M™)	1.0

Specifications

3M™ Electrical Tape 1039 is a Polyester Film-Backed Filament Scrim Tape with thermosetting acrylic 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 1039 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.

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