# 3M™ Electrical Tape 2039
# General Use Polyester Film/Glass Filament Reinforced Scrim with Acrylic, Pressure-Sensitive Adhesive

Data Sheet April 2017

**Description**

3M™ Electrical Tape 2039 is a general use 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 155°C (311°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.

Product Category OANZ2, File E17385

For RoHS information, please visit www.3M.com/ROHS

**Applications**

The primary application for 3M tape 2039 is holding down magnet wire, copper strips (sheets) and insulation materials during the demanding coil winding process. Other typical applications for 3M tape 2039 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 F (155°C)
- Consistent Thickness
- Excellent Adhesion and Cohesive Strength
- Excellent Conformability

## 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<br>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<br>US units (metric) |
|---|---|
| Dielectric Breakdown | 5000 V |
| Insulation Resistance | $1x10^5$ megaohms |
| Electrolytic Corrosion Factor (3M ™) | 1.0 |

## Specifications

3M™ Electrical Tape 2039 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 311°F (155°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 3M tape 2039 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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