

# 3M™ Electrical Insulating Tapes for Transformers

Help improve transformer performance with electrical insulating tapes from 3M. Our electrical-grade, pressure sensitive tapes are made with a broad range of electrical insulating backings and non-corrosive adhesives that have been optimized for different transformer applications.

For insulating applications, choose a tape that meets your dielectric and temperature stability requirements. For protecting applications, choose a tape that meets your puncture resistance requirements.

## Quick Guide



### Glass Cloth tapes

- Glass cloth backings
- Flexible and conformable
- High-temperature resistant
- High tensile strength
- Excellent varnish and resin absorption
- Cut-through and tear resistant

**3M™ Glass Cloth Electrical Tape 69** is a high-temperature (200°C) glass cloth tape that is UL510A flame retardant. It is commonly used in a variety of coil/transformer and motor applications, including as an outer wrap for bobbin wound coils, banding arbor wound coils, lead pad hold-down, end turns, and lead anchor and connections.

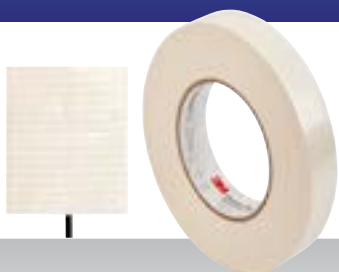
Designed for continuous operation not exceeding 200°C (392°F) per UL listing and 180°C (356°F) per CSA listing.

**3M™ Glass Cloth Electrical Tape 27** is a tough and conformable high-performance tape. It is commonly used in 600-volt dry, coil outer wrapping and insulating motor lead connector applications.

Designed for continuous operation not exceeding 150°C (302°F) per UL listing and 130°C (266°F) per CSA listing.

## Filament reinforced tapes

- Dielectric strength of polyester film
- High mechanical strength of glass fibers
- More cost-effective alternative to glass cloth tapes



**3M™ Filament Reinforced Electrical Tape 1046** is tough and durable, with a thermosetting rubber resin adhesive system. It is commonly used in such applications as lead anchoring and banding of coils.

Designed for continuous operation not exceeding 130°C (266°F) per UL listing.



**3M™ Filament Reinforced Electrical Tape 1039** is a more conformable, solvent-resistant tape with an acrylic adhesive. It is commonly used for holding down magnet wire, copper strips (sheets), and insulation materials during the demanding coil winding process. It's also used in lead anchoring, banding of coils, lead tape anchoring, and anywhere tensile strength is needed.

Designed for continuous operation not exceeding 130°C (266°F) per UL listing.



**3M™ Filament Reinforced Electrical Tape 1076** has a unique, oil saturable cellulose paper backing, and is commonly used in liquid-immersed transformer coil winding applications. It is excellent for anchoring lead wires to banding coils and end-turn taping.

Designed for continuous operation not exceeding 105°C (221°F).

## Composite film tapes

- High dielectric strength
- Edge-tear and puncture resistant
- For insulation, anchoring, and banding

**3M™ Composite Film Electrical Tape 44HT** is a composite film tape with aggressive adhesive. It is commonly used in such applications as stick-wound coil/transformer and in bobbin-wound coils for banding, anchoring, and insulating. It is good for protecting start wires, leads, terminal strips, insulating paper, end turns, and connections in motors and transformers.



For continuous operation not exceeding 130°C (266°F) per UL and CSA listings.

## Visit [3M.com/oem](https://www.3M.com/oem) to learn more.

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Electrical Markets Division  
13011 McCallen Pass, Bldg. C  
Austin, TX 78753-5380

Phone 800.676.8381  
Fax 800.828.9329  
[www.3M.com/oem](https://www.3M.com/oem)

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