

3M™ Electrical Tape 44HT

Polyester, Web-Reinforced Film with High-Tack
Thermosetting Rubber, Pressure-Sensitive
Adhesive

Data Sheet

October 2008

Description 3M™ Electrical Tape 44HT is a combination polyester film/polyester web coated with a rubber thermosetting pressure-sensitive adhesive. The tape is a high-tack, puncture resistant, conformable tape with excellent electrical properties.

**Agency Approvals,
Self Certifications,
MIL Specs**

Meets requirements of:

UL Recognized Component listing not to exceed 130° C, UL File No. E17385, Guide OANZ2.

Applications

Used for end turns and lead wire hold down in motors, and in transformers for anchoring, insulating and protecting start wires, leads, terminal strips, and insulation papers, and for holding and anchoring in stick-wound and bobbin-wound coils.

Typical Properties

Data is not for specifications. Values are typical and should not 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	Caramel Translucent
Adhesive	Rubber Thermosetting
Backing Thickness	5.0 mils (0,127 mm)
Breaking Strength	40 lbs/in (70 N/10 mm)
Elongation (% at break)	50%
Puncture Resistance (per Federal Spec L-T-001512)	12 lbs (5.4 kg)
Adhesion to Steel	35 oz/in (3.8 N/10 mm)



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Electrical

Property (Test Method) (ASTM D1000 unless noted)	Typical Value US units (metric)
Dielectric Breakdown	5500 V
Insulation Resistance	>1 x 10 ⁶ megohms
CTI Material Group	1
Electrolytic Corrosion Factor ² (per 3M Test Method)	1.0

Specifications

The tape is a polyester web-reinforced film with high tack 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 262° F (130° C) without loss of physical or electrical properties

For maximum solvent resistance and holding properties, the tape should be thermoset at one of the following cycles:

- 1 hour @ 300° F (150° C)
- 2 hours @ 275° F (135° C)
- 3 hours @ 250° F (120° C)

Shelf Life & Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).

Availability

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-676-8381.

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