

3M™ Electrical Tape 44HT

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

Data Sheet

August 2010

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 Meets flame retardant requirements of UL 510, Product Category OANZ2, and 3M File No. E17385

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

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.

Features Used where quick stick and high tack properties are needed to hold down wire or insulation elements in motor leads, transformers and other electrical assemblies.

- High Tack Adhesive for Quick Hold Applications.
- Thermosetting Rubber Adhesive Resists Varnish Dip and other Chemicals
- Polyester Web Construction Offers Excellent Strength and Puncture Resistance.
- High Electrical Resistance

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.

- Motor Lead Assemblies
- Transformers
- Stick-wound and Bobbin-wound Coils

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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 (Test Method)	Typical Value US units (metric)
Color	Caramel Translucent
Adhesive	Rubber Thermosetting
Type of Backing	Polyester Film/Web
Thickness (ASTM D1000)	5.5 mils (0.14 mm)
Breaking Strength (ASTM D1000)	40 lbs/in (70 N/10mm)
Elongation (ASTM D1000)	50 %
Puncture Resistance (Fed Std L-T-001512)	12 lbs (4.5 kg)
Adhesion to Steel (ASTM D1000)	80 oz/in (8.8N/10mm)
Electrical Properties (Test Method)	Typical Value US units (metric)
Dielectric Strength (ASTM D-1000)	5500 V
Insulation Resistance (ASTM D1000)	> 1 X 10 ⁶ MOhms
CTI Material Group	1
Electrolytic Corrosion Factor (3M ETM 54001)	1.0

Shelf Life & Storage

3M™ Electrical Tape 44HT 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

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.676.8381.

Important Notice

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture at the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

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