3M™ Electrical Tape 44

Data Sheet **January 2011**

Description

3M™ Electrical Tape 44 is a low-halogen, combination polyester film/polyester web film coated with a rubber thermosetting pressure-sensitive adhesive. This UL recognized conformable tape is puncture resistant with excellent electrical properties.

Agency Approvals & Self Certifications

Meets requirements of:

UL File No. E17385, Guide OANZ2

For temperatures not exceeding 130°C

Applications

Used for stick-wound coils/transformers and in bobbin-wound coils for banding, anchoring, and insulating, and for protecting start wires, leads, terminal strips, insulation paper, end turns and connections in motors and transformers.

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) (ASTM D1000 unless noted)	**Typical Value** US units (metric)
Color	Caramel Translucent
Adhesive	Rubber Thermosetting
Backing Thickness	5.5 mils (0,139 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	65 oz/in (7.1 N/10 mm)
Halogen Content	**Chlorine <**0.09% **Bromine** <0.004%

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	I = (> 600 volts)
Electrolytic Corrosion Factor (3M TM)	1.0

3M™ Electrical Tape 44

Specifications	3M™ Electrical Tape 44 is a low-halogen, polyester web-reinforced film with 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 (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	All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. 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. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.
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.

3M is a trademark of 3M Company.

Electrical Markets Division
6801 River Place Blvd.
Austin, TX 78726-9000
800.676.8381
FAX: 800.828.9329
www.3M.com/electrical

Please recycle
© 3M 2011 All rights reserved
78-8124-4753-6 D

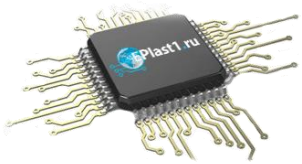
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.