



3M™ Composite Film Electrical Tape 44 with Thermosetting Rubber Adhesive

Data Sheet

May 2021

Product Description

3M™ Composite Film Electrical Tape 44 is a general-use, tan, 5.25-mil (0.133 mm) thick tape composed of a polyester film/nonwoven composite reinforced backing coated on one side with a thermosetting rubber pressure-sensitive adhesive.

- Commonly used in applications such as stick-wound coil/transformer and in bobbin-wound coils for banding, anchoring and insulating
- Commonly used in protecting start wires, leads, terminal strips, insulating paper, end turns and connections in motors and transformers
- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 130°C (266°F) per UL and CSA listings

Properties

| Physical Properties | Value Imperial (Metric) | Electrical Properties | Value Imperial (Metric) |
|--|--|---|----------------------------|
| Color - Visual | Tan | Comparative Tracking Index (CTI) ³ | I |
| Adhesive | Thermosetting Rubber | Dielectric Breakdown ¹ - Minimum | 4500 V |
| Backing | Polyester Film/Nonwoven Composite | Electrolytic Corrosion Factor ² | 1.0 |
| Mechanical Properties | Value Imperial (Metric) | Insulation Resistance ¹ - Minimum | 1x10 ¹² Ω |
| Total Thickness ¹ | 5.25 +/- 0.75 mils (0.133 +/- 0.019 mm) | | |
| Adhesion to Steel ¹ - Minimum | 70 oz/in (7.7 N/cm) | | |
| Breaking Strength ¹ - Minimum | 25 lb/in (44 N/cm) | | |
| Elongation ¹ - Minimum | 15% | | |

Notes:

1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. 3M Test Method ETM-54001 - 1.0 equates to no corrosion observed
3. UL tested and meets the listed UL840 Material Group when tested to IEC 60112 on both sides of the tape

Agency Approvals & Self Certifications

- UL Component Recognized: UL510A Standard, Category OANZ2, File No. E17385
- CSA Certified: Standard C22.2 No. 66, File No. 093411, Class 9052-30
- For Regulatory information including RoHS, REACH, please visit www.3M.com/regs

Shelf Life & Storage

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

Availability

3M™ Composite Film Electrical Tape 44 available from 3M authorized distributors / converters
Also available from 3M.com/oem or call 1.800.245.3573.

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