



# 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) <sup>3</sup>	I
Adhesive	Thermosetting Rubber	Dielectric Breakdown <sup>1</sup> - Minimum	4500 V
Backing	Polyester Film/Nonwoven Composite	Electrolytic Corrosion Factor <sup>2</sup>	1.0
Mechanical Properties	Value Imperial (Metric)	Insulation Resistance <sup>1</sup> - Minimum	1x10 <sup>12</sup> Ω
Total Thickness <sup>1</sup>	5.25 +/- 0.75 mils (0.133 +/- 0.019 mm)		
Adhesion to Steel <sup>1</sup> - Minimum	70 oz/in (7.7 N/cm)		
Breaking Strength <sup>1</sup> - Minimum	25 lb/in (44 N/cm)		
Elongation <sup>1</sup> - 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](http://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](http://3M.com/oem) or call 1.800.245.3573.

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# **3M**

**Electrical Markets Division**

13011 McCallen Pass, Bldg. C

Austin, TX 78753

Phone: 800.676.8381

[www.3M.com/oem](http://www.3M.com/oem)

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