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)*
Color - Visual	Tan
Adhesive	Thermosetting Rubber
Backing	Polyester Film/Nonwoven Composite
Mechanical Properties	***Value Imperial (Metric)***
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%

Electrical Properties	*Value Imperial (Metric)*
Comparative Tracking Index (CTI)[3]	I
Dielectric Breakdown[1] *- Minimum*	4500 V
Electrolytic Corrosion Factor[2]	1.0
Insulation Resistance[1] *- Minimum*	$1x10^{12}$ Ω

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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TECHNICAL STATEMENT

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