



ELECTRICAL INSULATION TAPES



3M 44 Composite Film Tape

3M 44 Composite Film Tape is a low-halogen, high quality insulating tape manufactured from a hybrid polyester film/polyester web film that is coated on one side with a thermosetting rubber pressure sensitive adhesive. This tape is UL recognised and exhibits excellent conformability for accurate application to tight turns and bends. It is also puncture resistant and offers excellent dielectric properties.

3M 44 Composite Film Tape is typically used for stick-wound coils and transformers as well as in bobbin-wound coils. It is also used for banding and anchoring as well as insulating and protecting start wires, leads, terminal strips, insulation paper, end turns and connections in motors and transformers.

Properties

Colour	Caramel Translucent
Adhesive	Rubber Thermosetting
Backing Thickness	0.139mm (5.5 mil)
Breaking Strength	70 N / 10mm (40 lbs./in)
Elongation (% at break)	50%
Puncture Resistance (as per US Federal Spec L-T-001512)	5.4kg (12 lbs)
Adhesion to Steel	7.1 N / 10mm (65 oz./in)
Halogen Content	Chlorine <0.09% Bromine <0.004%
Dielectric Breakdown	5,500V
Insulation Resistance	>1 x 10 ⁶ megohms
Electrolytic Corrosion Factor	1.0
CTI Material Group	I = (>600 volts)

All values are as per ASTM D1000 unless otherwise noted.

Values are typical and should not be considered maximum or minimum.

Properties measured at room temperature (23°C) unless otherwise stated.

Specifications

3M™ Electrical Tape 44 is a low-halogen, polyester web reinforced film with a 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 subsequent application. The adhesive coating shall be smooth and uniform and free of lumps and bare spots. There shall be not separator between adjacent layers of the roll. The tape shall perform at a temperature of 130°C (262°F) without loss of physical or electrical properties.

For maximum solvent resistance and holding properties, the tape shall be thermoset at one of the following cycles:

- 1 Hour @ 150°C (300°F)
- 2 Hours @ 135°C (275°F)
- 3 Hours @ 120°C (250°F)

Availability

Associated Gaskets slits 3M 44 Composite Film Tape in-house and can provide this quality insulation tape in whatever width you require (standard widths are also listed below).

Standard roll widths: 6mm, 9mm, 12mm, 15mm, 18mm, 21mm, 24mm

Standard roll length: 82.3mtrs.

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Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.

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