3M™ Epoxy Film Electrical Super 10 with Thermosetting Rubber Adhesive

Data Sheet **October 2021**

Product Description

3M™ Epoxy Film Electrical Tape Super 10 is a white UL recognized flame retardant, 5.5-mil (0.140 mm) thick tape composed of a polyester film reinforced with a thermoset, flame-retardant epoxy resin coated on both sides and coated on one side with a non-corrosive, thermosetting rubber pressure-sensitive adhesive.

- Commonly used in wrapping relays, coils, transformers, bobbin-wound sub-fractional horsepower shaded-pole motors, stick-wound or arbor wound coils and wire harnesses
- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 155°C (311°F) per UL and 130°C (266°F) per CSA listing

Properties

Physical Properties	*Value Imperial (Metric)*
Color - Visual	White
Adhesive	Thermosetting Rubber
Backing	Polyester Film / Epoxy Resin
Flame Retardant[2]	Pass
Mechanical Properties	***Value Imperial (Metric)***
Backing Thickness - Nominal	4 mil (0.102 mm)
Total Thickness[1] - Minimum	5.5 +/- 0.5 mils (0.140 +/- 0.013 mm)
Adhesion to Steel[1] - Minimum	30 oz/in (3.3 N/cm)
Breaking Strength[1] - Minimum	30 lb/in (53 N/cm)
Elongation[1] - Minimum	80%

Electrical Properties	*Value Imperial (Metric)*
Comparative Tracking Index (CTI)[4]	I
Dielectric Breakdown[1] - Minimum	7000 V
Electrolytic Corrosion Factor[3]	1.0
Insulation Resistance[1] - Minimum	$1x10^{12}\ \Omega$

Notes:
1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. UL Recognized Flame Retardant per UL510A Standard
3. 3M Test Method ETM-54001 - 1.0 equates to no corrosion observed
4. 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™ Epoxy Film Electrical Tape Super 10 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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