3M™ Polyester Film Electrical Tape 57 with Thermosetting Rubber Adhesive

Data Sheet May 2021

Product Description

3M™ Polyester Film Electrical Tape 57 is a yellow, 3.5-mil (0.089 mm) thick tape composed of 2-mil (0.051 mm) thick polyester film backing coated on one side with a non-corrosive, thermosetting rubber pressure-sensitive adhesive.

- Commonly used in wrapping coils, capacitors, wire harnesses, transformers, shaded pole motors and fractional-horsepower motors
- 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 listing

Properties

Physical Properties	Value Imperial (Metric)
Color - Visual	Yellow
Adhesive	Thermosetting Rubber
Backing	Polyester Film
Mechanical Properties	**Value Imperial (Metric)**
Backing Thickness - Nominal	2 mil (0.051 mm)
Total Thickness[1]	3.5 +/- 0.5 mils (0.089 +/- 0.013 mm)
Adhesion to Steel[1] - Minimum	45 oz/in (4.9 N/cm)
Breaking Strength[1] - Minimum	40 lb/in (70 N/cm)
Elongation[1] - Minimum	75%

Electrical Properties	Value Imperial (Metric)
Comparative Tracking Index (CTI)[3]	I
Dielectric Breakdown[1] - Minimum	6000 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 recognized to meet 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
- Self-certified to Commercial Item Description: A-A-59770A (2007) Type VI (MFT 3.5)
- 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™ Polyester Film Electrical Tape 57 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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