3M™ Polyester Film Electrical Tape 5 with Acrylic Adhesive

Data Sheet **June 2021**

Product Description

3M™ Polyester Film Electrical Tape 5 is a clear, general purpose, 2.5-mil (0.064 mm) thick tape composed of a 1-mil (0.025 mm) thick polyester film backing coated on one side with a non-corrosive, acrylic 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 and CSA listings

Properties

Physical Properties	*Value Imperial (Metric)*
Color - Visual	Clear
Adhesive	Acrylic
Backing	Polyester Film
Mechanical Properties	*Value Imperial (Metric)*
Backing Thickness - Nominal	1 mil (0.025 mm)
Total Thickness[1]	2.5 +/- 0.5 mils (0.064 +/- 0.013 mm)
Adhesion to Steel[1] *- Minimum*	28 oz/in (3.1 N/cm)
Breaking Strength[1] *- Minimum*	20 lb/in (35 N/cm)
Elongation[1] *- Minimum*	75%

Electrical Properties	*Value Imperial (Metric)*
Dielectric Breakdown[1] *- Minimum*	4000 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

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
- Self-certified to Commercial Item Description: A-A-59770A (2007) Type V (MF 2.5)
- 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 5 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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