



## 3M™ Polyester Film Electrical Tape 56 with Thermosetting Rubber Adhesive

### Data Sheet

August 2021

#### Product Description

3M™ Polyester Film Electrical Tape 56 is a yellow, 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, 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 and CSA listings

### Properties

| Physical Properties                      | Value<br>Imperial (Metric)               | Electrical Properties                         | Value<br>Imperial (Metric) |
|--|--|---|----------------------------|
| Color - Visual                           | Yellow                                   | Comparative Tracking Index (CTI) <sup>3</sup> | I                          |
| Adhesive                                 | Thermosetting Rubber                     | Dielectric Breakdown <sup>1</sup> - Minimum   | 4500 V                     |
| Backing                                  | Polyester Film                           | Electrolytic Corrosion Factor <sup>2</sup>    | 1.0                        |
| Mechanical Properties                    | Value<br>Imperial (Metric)               | Insulation Resistance <sup>1</sup> - Minimum  | 1x10 <sup>12</sup> Ω       |
| Backing Thickness - Nominal              | 1 mil (0.025 mm)                         |   |                            |
| Total Thickness <sup>1</sup>             | 2.5 +/- 0.5 mils<br>(0.064 +/- 0.013 mm) |   |                            |
| Adhesion to Steel <sup>1</sup> - Minimum | 35 oz/in (3.8 N/cm)                      |   |                            |
| Breaking Strength <sup>1</sup> - Minimum | 20 lb/in (35 N/cm)                       |   |                            |
| Elongation <sup>1</sup> - Minimum        | 75%                                      |   |                            |

#### 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
- CSA Certified: Standard C22.2 No. 66, File No. 093411, Class 9052-30
- Self-certified to Commercial Item Description: A-A-59770A (2007) Type VI (MFT 2.5)
- For Regulatory information including RoHS, REACH, please visit [www.3M.com/regs](http://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 56 available from 3M authorized distributors/converters

Also available from [3M.com/oem](http://3M.com/oem) or call 1.800.245.3573.

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**Electrical Markets Division**  
13011 McCallen Pass, Bldg. C  
Austin, TX 78753  
Phone: 800.676.8381  
[www.3M.com/oem](http://www.3M.com/oem)

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