



# 3M™ PTFE Film Electrical Tape 61 with Silicone Adhesive

**Data Sheet**

**May 2021**

**Product Description** 3M™ PTFE Film Electrical Tape 61 is a UL recognized flame retardant, natural colored, 6.75-mil (0.171 mm) thick tape composed of a 5-mil (0.127 mm) thick PTFE film backing coated on one side with a non-corrosive, thermosetting silicone pressure-sensitive adhesive.

- Commonly used for high temperature coils, capacitors and wire harness applications
- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 180°C (356°F)

## Properties

Physical Properties	Value Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
Color - Visual	Natural	Dielectric Breakdown <sup>1</sup> - Minimum	10000 V
Adhesive	Thermosetting Silicone	Electrolytic Corrosion Factor <sup>3</sup>	1.0
Backing	PTFE Film	Insulation Resistance <sup>1</sup> - Minimum	1x10 <sup>12</sup> Ω
Flame Retardant <sup>2</sup>	Pass		
Mechanical Properties	Value Imperial (Metric)		
Backing Thickness - Nominal	5 mil (0.127 mm)		
Total Thickness <sup>1</sup>	6.75 +/- 0.75 mils (0.171 +/- 0.019 mm)		
Adhesion to Steel <sup>1</sup> - Minimum	33 oz/in (3.6 N/cm)		
Breaking Strength <sup>1</sup> - Minimum	31 lb/in (45.5 N/cm)		
Elongation <sup>1</sup> - Minimum	100%		

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

### Agency Approvals & Self Certifications

- UL Component Recognized: UL510A Standard, Category OARC2, File No. E17385
- 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™ PTFE Film Electrical Tape 61 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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