



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

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 or call 1.800.245.3573.

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