3M™ PTFE Film Electrical Tape 63 with Acrylic Adhesive

Data Sheet — May 2021

Product Description

3M™ PTFE Film Electrical Tape 63 is a UL recognized flame retardant, natural colored, 3.35-mil (0.085 mm) thick tape composed of a 2-mil (0.051 mm) PTFE film backing coated on one side with a non-corrosive, acrylic 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 155°C (311°F)

Properties

Physical Properties	Value Imperial (Metric)
Color - Visual	Natural
Adhesive	Acrylic
Backing	PTFE Film
Flame Retardant[2]	Pass
Mechanical Properties	**Value Imperial (Metric)**
Backing Thickness - Nominal	2 mil (0.051 mm)
Total Thickness[1]	3.35 +/- 0.65 mils (0.085 +/- 0.017 mm)
Adhesion to Steel[1] - Minimum	18 oz/in (2.0 N/cm)
Breaking Strength[1] - Minimum	19 lb/in (33 N/cm)
Elongation[1] - Minimum	75%

Electrical Properties	Value Imperial (Metric)
Dielectric Breakdown[1] - Minimum	8000 V
Electrolytic Corrosion Factor[3]	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. 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 63 available from 3M authorized distributors / converters

Also available from 3M.com/oem or call 1.800.245.3573.

3M™ PTFE Film Electrical Tape 63 with Silicone Adhesive

TECHNICAL STATEMENT

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