



3M™ Polyester Film Electrical Tape 1351-1 with Acrylic Adhesive

Data Sheet

May 2022

Product Description

3M™ Polyester Film Electrical Tape 1351-1 is a white UL recognized flame retardant, 2.5-mil (0.064 mm) thick tape composed of a 1-mil (0.025 mm) 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 listing

Properties

Physical Properties	Value Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
Color - Visual	White	Comparative Tracking Index (CTI) ⁴	I
Adhesive	Acrylic	Dielectric Breakdown ¹ - Minimum	5000 V
Backing	Polyester Film	Electrolytic Corrosion Factor ³	1.0
Flame Retardant ²	Pass	Insulation Resistance ¹ - Minimum (High Humidity Method)	1x10 ¹² Ω
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	25 oz/in (2.7 N/cm)		
Breaking Strength ¹ - Minimum	20 lb/in (35 N/cm)		
Elongation ¹ - Minimum	50%		

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
4. 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
- 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 1351-1 available from 3M authorized distributors / converters

Also available from www.3M.com/oem or call 1.800.676.8381

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