

3M™ Filament-Reinforced Electrical Tape 46 with Thermosetting Rubber Adhesive

Data Sheet May 2021

Product Description

3M™ Filament-Reinforced Electrical Tape 46 is a white, 6.5-mil (0.165 mm) thick tape composed of a polyester film glass filament reinforced backing coated on one side with a non-corrosive, thermosetting rubber pressure-sensitive adhesive.

- Commonly used in applications such as lead anchoring and banding of coils
- 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 Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
Color - Visual	White	Dielectric Breakdown ¹ - Minimum	5000 V
Adhesive	Thermosetting Rubber	Electrolytic Corrosion Factor ²	1.0
Backing	Polyester Film/Glass Filament	Insulation Resistance ¹ - Minimum	20x10 ⁶ Ω
Mechanical Properties	Value Imperial (Metric)		
Total Thickness ¹	6.5 +/- 1.0 mils (0.165 +/- 0.025 mm)		
Adhesion to Steel ¹ - Minimum	50 oz/in (5.5 N/cm)		
Breaking Strength ¹ - Minimum	180 lb/in (315 N/cm)		
Elongation ¹ - Minimum	5%		

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

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
	For Regulatory information including RoHS, REACH, please visit <u>www.3M.com/regs</u>
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™ Filament-Reinforced Electrical Tape 46 available from 3M authorized distributors / converters
	Also available from 3M.com/oem or call 1.800.245.3573.

3M™ Filament-Reinforced Electrical Tape 46 with Thermosetting Rubber Adhesive TECHNICAL STATEMENT

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