



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 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™ Filament-Reinforced Electrical Tape 46 available from 3M authorized distributors / converters

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

Authorized Distributor:



MaterialPartner Technische Werkstoffe GmbH ☎ Tel: +43 (0) 2256 65 888

Kurze Gasse 5-7 2544 Leobersdorf | Austria

✉ Mail: info@materialpartner.eu

Company registration: FN 408274

🌐 www.materialpartner.eu

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TECHNICAL STATEMENT

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