

# Technical data sheet



Product: 27

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: ELEKTRO

Article group: KLEBEBAND

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## 3M™ GLASS CLOTH ELECTRICAL TAPE 27

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## 3M™ Glass Cloth Electrical Tape 27 with Thermosetting Rubber Adhesive

### Data Sheet

May 2021

#### Product Description

3M™ Glass Cloth Electrical Tape 27 is a white, 7.25-mil (0.184 mm) thick tape composed of a 5-mil (0.127 mm) glass cloth backing coated on one side with a thermosetting rubber pressure-sensitive adhesive.

- Commonly used in 600-volt dry, coil outer wrapping and insulating motor lead connector applications
- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 150°C (302°F) UL listing, 130°C (266°F) CSA listing

### Properties

Physical Properties	Value Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
Color - Visual	White	Comparative Tracking Index (CTI) <sup>3</sup>	I
Adhesive	Thermosetting Rubber	Dielectric Breakdown <sup>1</sup> - Minimum	2725 V
Backing	Glass Cloth	Electrolytic Corrosion Factor <sup>2</sup>	0.9
Mechanical Properties	Value Imperial (Metric)	Insulation Resistance <sup>1</sup> - Minimum	50x10 <sup>6</sup> Ω
Backing Thickness - Nominal	5 mil (0.127 mm)		
Total Thickness <sup>1</sup>	7.25 +/- 1.25 mils (0.184 +/- 0.032 mm)		
Adhesion to Steel <sup>1</sup> - Minimum	38 oz/in (4.2 N/cm)		
Breaking Strength <sup>1</sup> - Minimum	120 lb/in (210 N/cm)		

Notes:

1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. 3M Test Method ETM-54001 – 0.9 value means tape or backing may promote corrosion
3. UL tested and meets the listed 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
- 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](http://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™ Glass Cloth Electrical Tape 27 available from 3M authorized distributors / converters

Also available from [3M.com/oem](http://3M.com/oem) or call 1.800.245.3573.

# **3M™ Glass Cloth Electrical Tape 27 with Thermosetting Rubber Adhesive**

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