



# 3M™ Glass Cloth Electrical Tape 69 with Silicone Adhesive

## Data Sheet

October 2021

**Product Description** 3M™ Glass Cloth Electrical Tape 69 is a white, 7-mil (0.178 mm) thick tape composed of a 5-mil (0.127 mm) glass cloth backing coated on one side with a non-corrosive, high-temperature, flame retardant, thermosetting silicone pressure-sensitive adhesive.

- Commonly used in UL applications rated up to 600v in dry locations as defined in the National Electrical Code.
- Commonly used in a variety of coil/transformer and motor applications including as an outer wrap for bobbin wound coils, banding arbor wound coils, lead pad hold-down, end turns and lead anchor and connections
- Adhesive does not require heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 200°C (392°F) per UL listing, 180°C (356°F) per 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 Silicone	Dielectric Breakdown <sup>1</sup> - Minimum	2000 V
Backing	Glass Cloth	Electrolytic Corrosion Factor <sup>2</sup>	0.9
Mechanical Properties	Value Imperial (Metric)	Insulation Resistance <sup>1</sup> – Minimum (High Humidity Method)	50x10 <sup>6</sup> Ω
Backing Thickness - Nominal	5 mil (0.127 mm)		
Total Thickness <sup>1</sup>	7.0 +/- 1.0 mils (0.178 +/- 0.025 mm)		
Adhesion to Steel <sup>1</sup> - Minimum	30 oz/in (3.3 N/cm)		
Breaking Strength <sup>1</sup> - Minimum	150 lb/in (263 N/cm)		
Flame Retardant – UL 510	Pass		

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
- Qualified Product Listed: QPL-19166 per Governing Spec MIL-I-19166C
- Self-certified to Commercial Item Description: A-A-59770A (2007), Type IV (GFT)
- 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 69 available from 3M authorized distributors / converters

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

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