

Technical data sheet



Product: 69

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: ELEKTRO

Article group: KLEBEBAND

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3M™ GLASS CLOTH ELECTRICAL TAPE 69

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3M™ Glass Cloth Electrical Tape 69 with Silicone Adhesive

Data Sheet

May 2022

Product Description

3M™ Glass Cloth Electrical Tape 69 is a white, 7-mil (0.178 mm) thick tape composed of a 5.5-mil (0.140 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 600 volts 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) ³	I
Adhesive	Thermosetting Silicone	Dielectric Breakdown ¹ - Minimum	2000 V
Backing	Glass Cloth	Electrolytic Corrosion Factor ²	0.9
Mechanical Properties	Value Imperial (Metric)	Insulation Resistance ¹ – Minimum (High Humidity Method)	50x10 ⁶ Ω
Backing Thickness - Nominal	5.5 mil (0.140 mm)		
Total Thickness ¹	7.0 +/- 1.0 mils (0.178 +/- 0.025 mm)		
Adhesion to Steel ¹ - Minimum	30 oz/in (3.3 N/cm)		
Breaking Strength ¹ - 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

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 www.3M.com/oem or call 1.800.676.8381.

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