

# 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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Tewipack Uhl GmbH  
Industriestraße 15  
D-75382 Althengstett

Telephone:  
+49(0)7051/9297-0  
Fax:  
+49(0)7051/9297-99

E-Mail:  
info@tewipack.de  
Website:  
www.tewipack.de

Managing director:  
Alexander Uhl,  
Michael Uhl  
HRB 330424  
Amtsgericht  
Stuttgart

Bank details:  
Sparkasse  
Sindelfingen  
Pforzheim  
Calw  
BLZ 666 500  
85  
Konto 17 787

Commerzbank  
Sindelfingen  
BLZ 603 400 71  
Konto 8 001 166

Vereinigte  
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BLZ 603 900 00  
Konto 80 089  
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Postbank  
Stuttgart  
BLZ 600 100  
70  
Konto 146  
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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**

<i>Physical Properties</i>	<i>Value Imperial (Metric)</i>	<i>Electrical Properties</i>	<i>Value Imperial (Metric)</i>
<b>Color - Visual</b>	White	<b>Comparative Tracking Index (CTI)<sup>3</sup></b>	I
<b>Adhesive</b>	Thermosetting Silicone	<b>Dielectric Breakdown<sup>1</sup> - Minimum</b>	2000 V
<b>Backing</b>	Glass Cloth	<b>Electrolytic Corrosion Factor<sup>2</sup></b>	0.9
<i>Mechanical Properties</i>	<i>Value Imperial (Metric)</i>	<b>Insulation Resistance<sup>1</sup> – Minimum (High Humidity Method)</b>	50x10 <sup>6</sup> Ω
<b>Backing Thickness - Nominal</b>	5.5 mil (0.140 mm)		
<b>Total Thickness<sup>1</sup></b>	7.0 +/- 1.0 mils (0.178 +/- 0.025 mm)		
<b>Adhesion to Steel<sup>1</sup> - Minimum</b>	30 oz/in (3.3 N/cm)		
<b>Breaking Strength<sup>1</sup> - Minimum</b>	150 lb/in (263 N/cm)		
<b>Flame Retardant – UL 510</b>	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 [www.3M.com/oem](http://www.3M.com/oem) or call 1.800.676.8381.

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

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Electrical Markets Division  
13011 McCallen Pass, Bldg. C  
Austin, TX 78753  
Phone: 800.676.8381  
[www.3M.com/oem](http://www.3M.com/oem)

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