



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

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 or call 1.800.245.3573.

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TECHNICAL STATEMENT

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