

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) ³	I
Adhesive	Thermosetting Rubber	Dielectric Breakdown ¹ - Minimum	2725 V
Backing	Glass Cloth	Electrolytic Corrosion Factor ²	0.9
Mechanical Properties	Value Imperial (Metric)	Insulation Resistance ¹ - Minimum	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.

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

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