

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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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
Volksbank AG
Böblingen
BLZ 603 900 00
Konto 80 089
003

Postbank
Stuttgart
BLZ 600 100
70
Konto 146
294 708



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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3M

Electrical Markets Division

13011 McCallen Pass, Bldg. C

Austin, TX 78753

Phone: 800.676.8381

www.3M.com/oem

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