

3M™ Glass Cloth Electrical Tape 68 with Silicone Pressure-Sensitive Adhesive

Data Sheet

November 2008

Description 3M™ Glass Cloth Electrical Tape 68 is a 7-mil woven insulating glass cloth tape with a silicone pressure-sensitive adhesive. This tape is used to electrically insulate and provide mechanical protection at temperatures to 356° F (180° C). This tape provides insulation protection for use as coil cover, anchor, banding and core, layer and crossover insulation. This tape features a non-corrosive adhesive. It is conformable, printable and flame retardant.

Agency Approvals, Self Certifications, MIL Specs

- Meets requirements of Mil-1-19166C
- UL Recognized Component listing for 356° F (180° C), Guide OANZ2, File E17385 (Class H)

RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2002/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

Applications

- Especially suited to high-temperature applications
- Used in a variety of coil/transformer and motor applications, including an outer wrap for bobbin wound coils, banding arbor wound coils, lead pad hold down, end turn and lead anchor and connection.

Typical Properties

Data is not for specifications. Values are typical and should not be considered minimum or maximum. Properties measured at room temperature 73° F (~23° C) unless otherwise stated.

Physical

Property (Test Method) (ASTM D1000 unless noted)	Typical Value US units (metric)
Color	white
Adhesive	silicone
Backing Thickness	5.0 mils (0,125 mm)
Total Thickness	7.0 mils (0,177 mm)
Elongation (% at break)	8%
Operating Temperature	180° C
Adhesion to Steel	40 oz/in (4.4 N/10 mm)
UL 510 Flame Retardant	Yes



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Typical Properties

Electrical

Property (Test Method) (ASTM D1000 unless noted)	Typical Value US units (metric)
Dielectric Breakdown	2500 V
Breaking Strength	170 lbs/in (298 N/10 mm)

Specifications

3M™ Glass Cloth Electrical Tape 68 is a glass cloth electrical tape with silicone pressure-sensitive adhesive. The tape shall be white and 7 mils (0,78 mm) thick. The tape shall be coated on one side with pressure-sensitive adhesive, which shall not require heat, moisture or other preparation prior to or subsequent to application. The adhesive coating shall be smooth and uniform, and be free of lumps and bare spots. There shall be no separator between adjacent layers of the roll. The tape shall perform at a temperature of 356° F (180° C) without loss of physical or electrical properties.

Shelf Life & Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).

Availability

Glass Cloth Electrical Tape 68 is available in standard and custom lengths and widths. Standard length is 36 yards.

For availability, please contact your local distributor. Names and addresses are available from 3M.com/electrical [Where to Buy] or call 1-800-676-8381 or 1-800-245-3573.

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