

3M™ Saturated Glass Cloth Electrical Tape 90

With Rubber Thermosetting Pressure Sensitive Adhesive

Data Sheet

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Description 3M™ Saturated Glass Cloth Electrical Tape 90 is a white glass cloth tape with a rubber thermosetting adhesive. The glass cloth has excellent high temperature resistance, tensile strength and exhibits resistance to raveling and fraying which facilitates automated application and improves aesthetics.

Agency Approvals & Self Certifications

RoHS 2002/95/EC



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

- For use as a high-temperature insulating tape in coils and transformers
- Connections in motors and electrical gear
- Banding anchoring and insulating systems

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	Thermosetting Rubber
Total Thickness	7.5 mils (0.19 mm)
Elongation (% at break)	5 %
Breaking Strength	175 lb/in (306 N/10 mm)
Operating Temperature	311°F (155°C)
Adhesion to Steel	50 oz/in (5.5 N/10 mm)

Electrical Property (Test Method) (ASTM D1000) unless noted	Typical Value US units (metric)
Dielectric Breakdown	3000 V
Insulation Resistance	1 x 10 ² megohms

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Specifications 3M™ Saturated Glass Cloth Electrical Tape 90 is a saturated glass cloth electrical tape with a rubber thermosetting adhesive. The tape shall be white and 7.5 mils (0.19 mm) thick. This 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. 3M Tape 90 shall perform at a temperature of 310°F (155°C) without loss of physical or electrical properties.

To achieve maximum solvent resistance and holding performance, we suggest thermosetting the tape at one of the following cycles:

- 1 hour @ 150°C (300°F)
- 2 hours @ 135°C (275°F)
- 3 hours @ 120°C (250°F)

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

Availability 3M Tape 90 is available in standard and custom lengths and widths. Standard length is 60 yards.

Please contact your local distributor. Names and addresses are available from 3M.com/electrical [Where to Buy], or call 1.800.676.8381 or 1.800.828.9329.

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