

Scotch®

69 Glass Cloth Electrical Tape

Data Sheet



Product Description

Scotch® 69 Glass Cloth Electrical Tape is a white glass tape with a high-temperature thermosetting silicone adhesive. It has been designed for use in 600-volt dry location applications requiring both high mechanical strength and resistance to high temperatures. The thermosetting adhesive provides an increased bond, once applied in areas of high ambient temperatures. This tape has a class "H" 180°C (356°F) temperature rating.

Meets requirements of:

- Military Specification No. MIL-I-19166C
- UL Recognized Component listing for 200°C (Guide OANZ2, File E17385)
- CSA Accepted Component 180°C file LR93411

Applications

- Insulating electric and induction type furnace power supply leads
- Securing high-temperature, non-PSA insulation (such as asbestos and glass) in high-temperature areas
- Securing Scotch® 77 Fire Retardant Electric Arc Proofing Tape
- Replacing Scotch® 27 Tape in locations where a higher temperature tape is needed
- Splicing wire that is rated 150°C (302°F), 180°C (356°F), SF and SFF
- Reinsulating and repairing coils on mining machines
- Reinforcing insulation in electrical installation where heavy loads cause high heat and breakdown of original insulation (e.g. motor control exciter feeds).
- Splicing silicone-covered glass wire where splices require more abrasion resistance and mechanical strength than can be provided by silicone tapes.

- Insulating Class "H" dry-type transformer leads
- Insulating splices made on SA type wire in heat treat areas.

Typical Data/Physical Properties

Test Method	Typical Value*
-------------	----------------

Physical Properties

Thickness ASTM D-1000	7.5 mils (0,19mm)
Tensile Strength ASTM D-1000	150 lbs/in (26 kN/m)
Elongation ASTM D-1000	5% at break
Adhesion ASTM D-1000	40 oz/in (0,44 kN/m)

Electrical Properties

Dielectric Breakdown ASTM D-1000	3500V
Insulation Resistance ASTM D-1000	250 megohms @ 96% RH
Electrolytic Corrosion Factor 3M Test Method	1.0

***These are typical values and should not be used for specification purposes.**

Shelf life

Scotch® 69 Glass Cloth Electrical Tape has a 3-year shelf life from date of manufacture when stored under the following recommended storage conditions. Store behind present stock in a clean dry place at a temperature of 70°F and 40-50% relative humidity. Good stock rotation is recommended.

Availability

This glass cloth electrical tape is available from your local authorized 3M electrical distributor in the following sizes:

1/2 in. x 66 ft. (12,7 mm x 19,8m)

3/4 in. x 66 ft. (19 mm x 19,8m) rolls

3M and Scotch are trademarks of 3M.

IMPORTANT NOTICE

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture as of the date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.**



Electrical Products Division

6801 River Place Blvd.
Austin, TX 78726-9000
www.3M.com/elpd

Litho in USA
©3M IPC 2000 78-8111-0896-4-B