3M™ Glass Cloth Electrical Tape 79 with Acrylic Pressure-Sensitive Adhesive

Data Sheet **September 2016**

Description

3M™ Glass Cloth Electrical Tape 79 is a 7-mil woven insulating glass cloth tape with an acrylic pressure-sensitive adhesive. This tape is used to electrically insulate and provide mechanical protection at temperatures to 311°F/155°C. This tape provides insulation and solvent-resistant protection for use as coil cover, anchor, banding and core, layer and crossover insulation. It is edge-tear resistant, conformable and printable. It also features an excellent absorption of resin and varnishes.

Agency Approvals, Self Certifications, MIL Specs

UL Recognized Component listing for 311°F/155°C, Guide OANZ2, File E17385

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

- 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
- Used for banding and strapping applications up to 155°C

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	Acrylic
Backing Thickness	5.0 mils (0,127 mm)
Total Thickness	7.0 mils (0,177 mm)
Elongation (% at break)	5%
Operating Temperature	155°C
Adhesion to Steel	30 oz/in (3,3 N/10 mm)
UL 510 Flame Retardant	No

Typical Properties

Electrical

Property (Test Method) (ASTM D1000 unless noted)	Typical Value US units (metric)
Dielectric Breakdown	3000 V
Breaking Strength	150 lbs/in (262 N/10 mm)
Insulation Resistance	2.7 x 10^2 megohms
CTI Material Group	1
Electrolytic Corrosion Factor	0.9

Specifications

3M™ Glass Cloth Electrical Tape 79 is a glass cloth electrical tape with acrylic pressure-sensitive adhesive. The tape shall be white and 7 mils (0,178 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 -40°F/-40°C to 311°F/155°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

Electrical Tape 79 is available in standard and custom lengths and widths. Standard length is 60 yards.

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-676-8381.

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