



Commercial Grade Vinyl Electrical Tape 700

Data Sheet

July 2011

Description Scotch® Commercial Grade Vinyl Electrical Tape 700 is a high quality, vinyl insulating tape. It has excellent resistance to abrasion, moisture, alkalies, acids, copper corrosion and varying weather conditions. Scotch® Tape 700 provides excellent mechanical protection with minimum bulk. It is an Underwriters' Laboratories Listed and Canadian Standards Association Certified "Insulating Tape."

Agency Approvals & Self Certifications UL Listed; UL 510 Standard "Insulating Tape" (product category OANZ), File E129200
CSA Certification; Standard C22.2 No. 197-M1983 "PVC Insulating Tape," File LR48769

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 2005/618/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

- Primary electrical insulation for all wire and cable splices rated up to 600 volts and 80°C (176°F)
- Protective jacketing for high voltage cable splices and repairs
- Harnessing of wires and cables
- For indoor or outdoor applications
- For above or below ground applications

Product Specification Scotch® Tape 700 is based on polyvinyl chloride (PVC) and/or its copolymers, and has a rubber-based, pressure-sensitive adhesive. The tape shall be 7 mils thick, and be UL Listed and marked per UL Standard 510 as "Flame-Retardant."

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Typical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

Physical Properties (Test Method ASTM D1000*)	Typical Value US units (metric)
Color	Black
Thickness*	7 mils (0,177 mm)
Temperature Rating UL 510 CSA C22.2 No 197-M1983 Continuous Operation Handling	80°C (176°F) 90°C (194°F) -10°C (14°F)
Adhesion to Steel*	25 oz/in (2.7 N/cm)
Adhesion to Backing*	19 oz/in (2.1 N/cm)
Breaking Strength*	15 lbs/in (26 N/10 mm)
Elongation*	225%
Flammability UL 510	Pass

Electrical Properties (Test Method ASTM D-1000*)	Typical Value US units (metric)
Dielectric Breakdown* Standard condition After Humidity Condition	>1,000 V/mil 90% of Standard
Insulation Resistance*	> 10 ⁶ Megohms

Installation

Scotch® Commercial Grade Vinyl Electrical Tape 700 shall be applied in half-lapped layers with sufficient tension to produce a uniform covering. In most applications, this tension will reduce the tape's width to approximately 5/8 of its original width. On pigtail splices, the tape shall be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cut-through. **Wrap tape up-hill, taping from a smaller diameter surface to a larger diameter surface.** Apply the tape with no tension on the last wrap to prevent flagging.

Availability

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.245.3573.

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).

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