

3M™ Temflex™ Vinyl Electrical Tape 1700

Data Sheet

November 2011

**Product
Description**

3M™ Temflex™ Vinyl Electrical Tape 1700 is a good quality, economical general purpose vinyl insulating tape. It has excellent resistance to: abrasion, moisture, alkalies, acid, copper corrosion and varying weather conditions. It is a polyvinyl chloride (PVC) tape that is flame-retardant and conformable. 3M Temflex 1700 Tape provides excellent mechanical protection with minimum bulk. It is a UL Listed and CSA 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 most wire and cable splices rated up to 600 volts
- Protective jacketing for high voltage cable splices and repairs
- Harnessing of wires and cables
- For indoor or outdoor applications
- For above or below ground application

**Installation
Techniques**

Apply the tape in half-lapped layers with sufficient tension to conform and 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 should be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cut-through. **Always wrap the tape “uphill” to create a shingle effect. Apply the tape with no tension on the last wrap to prevent flagging.**

3M™ Temflex™ Vinyl Electrical Tape 1700

Typical Data/ Physical 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)
Thickness*	7 mils (0,18 mm)
Adhesion* To Steel To Backing	22 oz/in (2,4 N/cm) 22 oz/in (2,4 N/cm)
Operating Temperature UL 510 CSA 2.22	80°C (176°F) 80°C (176°F)
Breaking Strength*	17 lbs/in (30 N/cm)
Elongation*	200%
Flammability (UL 510)	Pass

Electrical Properties (Test Method) *ASTM D1000	Typical Value US units (metric)
Dielectric Strength* Standard Condition After Humidity Condition	>1000 V/mil (39.4kV/mm) >90% of Standard
Insulation Resistance*	10 ⁶ Megohms

Shelf Life & Storage

3M Temflex Electrical Tape 1700 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 less than 75% relative humidity).

Availability

Temflex Electrical Tape 1700 is available from your local 3M authorized electrical distributor in the following standard roll size: ¾ in. x 60 ft. Other lengths and widths available by special order.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. 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. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture at the time 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 indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

3M and Temflex are trademarks of 3M Company.



Electrical Markets Division

6801 River Place Blvd.
Austin, TX 78726-9000
800.245.3573
FAX: 800.245.0329
www.3M.com/electrical

Please recycle
© 3M 2011 All rights reserved
78-8141-4999-9 A