

3M™ Tartan™ Vinyl Electrical Tape 1710

Data Sheet

July 2011

Description 3M™ Tartan™ Vinyl Electrical Tape 1710 is a high quality, vinyl insulating tape. It has excellent resistance to abrasion, moisture, alkalis, acids, copper corrosion and varying weather conditions. It is a polyvinyl chloride (PVC) tape that has a high wet dielectric strength, is conformable, and provides excellent mechanical protection with minimum bulk. This tape 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 LR702174

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.

- Features**
- Polyvinyl chloride (PVC) backing
 - Pressure-sensitive rubber-based adhesive
 - Compatible with solid dielectric cable insulations
 - For indoor or outdoor applications

- 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

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 English units (metric)
Color	Black
Thickness*	7 mils (0,177 mm)
Temperature Rating UL 510 CSA C22.2 LR702174	80°C (176°F) 80°C (176°F)
Adhesion to Steel*	18 oz. /in. (1,97 N/10 mm)
Adhesion to Backing*	18 oz. /in. (1,97 N/10 mm)
Breaking Strength*	15 lbs. /in. (26 N/10 mm)
Elongation*	150%
Flammability UL 510	Pass

3M™ Tartan™ Vinyl Electrical Tape 1710

Typical Properties. *continued*

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.

Electrical Properties (Test Method ASTM D-1000*)	Typical Value US units (metric)
Dielectric Breakdown* Standard condition After Humidity Condition	1,000 V/mil (39,4 kV/mm) >90% of Standard
Insulation Resistance*	> 10 ⁶ Megohms

Product Specifications

3M™ Tartan™ Vinyl Electrical Tape 1710 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."

Installation

This tape 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 3/4 of its original width. 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).

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 Tartan 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
78-8111-0899-8 C