Scotch®

Vinyl Electrical Tape 35

Data Sheet **July 2011**

Description	Scotch® Vinyl Electrical Tape 35 is a 7 mil (0,178 mm) polyvinyl chloride (PVC) color-coding tape. Outstanding electrical and mechanical properties make this tape excellent for use in phase identification, color coding of motor leads and piping systems, and for marking safety areas. Scotch® Tape 35 operates over a wide range of temperatures – up to 221°F (105°C); applies smoothly and conforms well above 32°F (0°C). This tape is available in nine fade resistant colors.
Agency Approvals & Self Certifications	UL Listed - UL 510 Standard "Insulating Tape" (product category OANZ), File E129200; meets UL 510 labeling for "flame-retardant" for vinyl electrical tape. CSA Certification; Standard. C22.2 No. 197-M1983 "PVC Insulating Tape," File LR 48769. 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	▪ Color coding for phase identification, job identification and safety ▪ Insulating electrical wiring ▪ Protecting electrical conductors, motor leads and piping from moisture, alkalis, acids, corrosion, abrasion and weather
Installation	▪ Apply in half-lapped layers with sufficient tension to conform and produce a uniform covering. In most applications, this tension will reduce the tape width to approximately 60% of its original width. ▪ On a pigtail splice, wrap the tape beyond the end of the wire and then fold back and over-wrap, leaving a protective cushion to resist cut-through. ▪ Wrap uphill, taping from a smaller diameter to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging**.**
Specifications	Scotch® Tape 35 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." The tape shall be compatible with synthetic cable insulations, jackets and splicing compounds. The tape will remain stable and will not telescope more than 0.1 inches when maintained at temperatures below 122°F (50°C).

3M

Scotch® Vinyl Electrical Tape 35

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 Property (ASTM D1000, unless noted)	**Typical Value** US units (metric)
Color(s)	Blue, Brown, Gray, Green, Orange, Red, Violet, White, Yellow
Adhesive	Pressure-sensitive rubber
Thickness	7 mils (0,178 mm)
Continuous Operating Temperature (max)	221ºF (105ºC)
Breaking Strength	17 lb/in (30,3 N/10 mm)
Elongation (% at break)	225%
Adhesion to Steel	20 oz/in (2,2 N/10 mm)
Adhesion to Backing	20 oz/in (2,2 N/10 mm)
Flagging	0.1 in (2,5 mm)

Electrical Property (ASTM D1000, unless noted)	**Typical Value** US units (metric)
Voltage Rating (UL 510)	600 volts
Dielectric Breakdown Standard condition Wet Condition (96 hrs @ 73.4ºF (23ºC)	 8,750 volts* 7875 volts *Note: Dielectric strength 1250 V/mil
High Humidity Insulation Resistance	> 1x 10^6 megohms

Shelf Life & Storage

Scotch® Vinyl Electrical Tape 35 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).

Availability

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

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.

Scotch is a registered trademark of 3M Company.

3M

Electrical Markets Division
6801 River Place Boulevard
Austin, TX 78726-9000
800-245-3573
Fax: 800.245.0329
www.3M.com/electrical

Please recycle
© 3M 2011 All rights reserved
78-8124-4858-3 E