3M™ Economy Vinyl Electrical Tape 1400

Data Sheet **February 2010**

Description	3M™ Economy Vinyl Electrical Tape 1400 is a black 7 mil thick, general use vinyl-insulating tape. It is designed to perform continuously in temperatures up to 80°C (176°F). This tape has a polyvinyl chloride (PVC) backing with pressure–sensitive rubber based adhesive. It inhibits corrosion of electrical conductors.
Agency Approvals & Self Certifications	UL Listed; UL 510 Standard "Insulating Tape" product category OANZ, File # 129200 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 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	• Electrical insulation for all wire and cable splices rated up to 600 volts and 80°C (176°F). • Harnessing of wires and cables
Installation Techniques	The tape shall be applied in half–lapped layers with sufficient tension to produce a uniform wind. Apply the tape with no tension on the last wrap to prevent flagging.
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 (Test Method)	**Typical Value** US units (metric)
Color	Black
Adhesive	Pressure-sensitive rubber based
Type of Backing	Polyvinyl chloride
Thickness (UL 510)	7 mils
Adhesion to Backing (ASTM D1000)	16 oz/in
Adhesion to Steel (ASTM D1000)	16 oz/in
Breaking Strength (ASTM D1000)	14 lbs/in
Ultimate Elongation (ASTM D1000)	150%
Dielectric Strength (ASTM D1000)	Standard Condition 1000 V/mil High Humidity 90% of std.
Flammability (UL 510)	Pass
Voltage Raging (UL 510)	600V
Flagging (ASTM D1000)	<0.25 inch

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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).
Availability	Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-245-3573.

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