

Scotch™ 2242 Linerless Electrical Rubber Tape

Product Description

Scotch™ 2242 Electrical Tape is an economical, general purpose, rubber tape. The tape is a highly conformable, linerless EPR (Ethylene Propylene Rubber) based electrical insulating tape. The tape is designed for use in splicing and terminating wires and cables rated up to 90°C. The tape will meet industry specifications for flame retardance and has the necessary physical and electrical properties to provide immediate moisture seals and void-free buildup.

Tape Features:

- Linerless, self-bonding, insulating tape
- Ethylene propylene base
- Flame retardant
- Physical and electrical properties unaffected by degree of stretch
- Uniform tape unwind from roll
- Small roll size (OD)
- Five year shelf life
- Stable over wide application temperature range
- Weather Resistant

Applications

- Primary insulation for cable splices and terminations
- Moisture-sealing and insulating electrical connections
- Bus bar insulation
- Moisture-sealing of cable ends
- Motor leads
- Wire and cable jacket repair

Data: Physical and Electrical Properties

Physical Properties

Color	Black
Thickness ASTM D-4325	30 mils (0.762 mm)
Tensile Strength ASTM D-4325	250 psi (1.72 MPa)
Ultimate Elongation ASTM D-4325	1000 %
Operating Temperature ASTM D-4388	90°C (194°F)
Emergency Overload ASTM D-4388	130°C (266°F)
Thermal Resistivity 3M Transient	300°C cm/watt
Ozone Resistance ASTM D-4388	Passes

Heat Resistance ASTM D-4388	Passes
UV Resistance ASTM D-4388	Passes
Flame Resistance IEEE Std 27-1974 ANSI C37.20C 74	Passes

Electrical Properties

Dielectric Strength ASTM D-4325 Original	750 V/mil (29.5 KV/mm)
ASTM D-4325 24 hrs in H ₂ O	750 V/mil (29.5 KV/mm)
ASTM D-4325 96 hrs @ 23°C 96% RH	730 V/mil (28.7 KV/mm)
Volume Resistivity ASTM D-4325 Original Aged 96 hrs @ 23°C 96% RH	>10 ¹⁵ ohm-cm >10 ¹⁴ ohm-cm
Dielctric Constant ASTM D-4325 1200 V @ 60 Hz 23°C	3.5
Dissipation Factor ASTM D-4325 1200 V @ 60 Hz 23°C	0.70%

*This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

Specifications

Installation Techniques

Shelf Life

Scotch™ 2242 Electrical Tape has a 5-year shelf life (from date of manufacture) when stored under the following recommended storage conditions. Store behind present stock in a clean dry place at a temperature of 70°F and 40 to 50% relative humidity. Good stock rotation is also recommended.

Availability

Scotch™ 2242 Electrical Tape is available in 3/4 in. by 15 ft, and 1-1/2 in. by 15 ft rolls from your electrical distributor.

IMPORTANT NOTICE TO PURCHASER:

All statements, technical information and recommendations related to the Seller's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use.

80-6104-3993-9

All statements or recommendations of the seller which are not contained in the Seller's current publications shall have no force or effect unless contained in an agreement signed by an authorized officer of the Seller. The statements contained herein are made in lieu of all warranties express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose which warranties are hereby expressly disclaimed.

(c)1991 3M

SELLER SHALL NOT BE LIABLE TO THE USER OR ANY OTHER PERSON UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR STRICT LIABILITY, FOR ANY INJURY OR FOR ANY DIRECT OR CONSEQUENTIAL DAMAGES SUSTAINED OR INCURRED BY REASON OF THE USE OF ANY OF THE SELLER'S PRODUCTS.

Litho in U.S.A