

Technical data sheet



Product: 2228

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: ELEKTRO

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3M™ SCOTCH® RUBBER MASTIC TAPE 2228

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3M™ Scotch® Rubber Mastic Tape 2228

Product Description

Scotch® Rubber Mastic Tape 2228 is a conformable self-fusing rubber electrical insulating and sealing tape. Scotch® Rubber Mastic Tape 2228 consists of an ethylene propylene rubber (EPR) backing coated with an aggressive, temperature-stable mastic adhesive. The tape is 1.65mm thick for quick application build-up. It is designed for electrical insulating and moisture sealing applications. Scotch® Rubber Mastic Tape 2228 is a UL recognized component for applications up to 130°C. It offers excellent resistance to moisture and ultraviolet exposure and is intended for both indoor and weather exposed outdoor applications.

Features

- Conformable for application over irregular surfaces.
- Compatible with solid dielectric cable insulations.
- Self-fusing tape.
- Flexible over wide temperature range.
- Excellent weather and moisture resistance.
- Excellent adhesion and sealing characteristics with copper, aluminum and power cable jacket materials.
- Thick construction allows quick application build-up and padding over irregular connections.

Applications

- Primary electrical insulation for cable and wire connections rated up to 1000 volts.
- Electrical insulation and vibration padding for motor leads rated up to 1000 volts.
- Primary electrical insulation for bus bar connections rated up to 35kV (3M drawing 2047B-106)
- Padding for irregular shaped bus bar bolted connections.
- Moisture seal for cable and wire connections.
- Moisture seal for service drops.
- Moisture seal for ground wire and rod connections
- Jacket seal on power cable applications

Installation

Scotch® Rubber Mastic Tape 2228 should be applied in half-lapped layers until desired insulation build up is reached. Stretch the tape to 3/4 of its original width during application for good conformability and to obtain a moisture tight seal. Scotch® Rubber Mastic Tape 2228 should be overwrapped for mechanical protection with two half-lapped layers of Scotch® Super 33+™ Vinyl Electrical Tape



Typical Properties

Temperature Rating (UL Cat OANZ2, File E17385)	130°C
Colour	Black
Thickness (ASTM-D4325)	1.65mm
Adhesion (ASTM-D1000)	Steel 26.2N/10mm PE 17.5N/10mm
Fusion (ASTM-D4388)	Pass (Type I)
Tensile Strength (ASTM-D4325)	1.03N/mm ²
Elongation (ASTM-D4325)	1000%
Dielectric Breakdown, Wet or Dry (ASTM-D1000)	17.7kV/mm
Dielectric Constant (ASTM-D1000)	3.5
Dissipation Factor (ASTM-D1000)	1.0%
Water Absorption (ASTM-D570)	0.15%
Water Vapour Transmission Rate (ASTM-D3833)	0.1g/1000in ² /24hr
Ozone Resistance (ASTM-D3833)	Pass
Heat Resistance (ASTM-D4388)	Pass, 130°C
UV Resistance (ASTM-D4388)	Pass

Note: These are typical properties and should not be used for specification purposes

Specification

The tape shall be 1.65mm thick. The tape must be ethylene propylene rubber based and coated with a rubber mastic pressure-sensitive adhesive. The tape shall be a UL recognized component for applications up to 130°C. The tape must be applicable at temperatures of 0°C to 38°C without loss of physical properties. The tape must be classified for use in both indoor and weather-exposed outdoor environments. The tape must not split or crack when exposed to normal operating temperatures and environments. The tape must be compatible with synthetic cable and wire insulations. The tape shall not be corrosive to aluminium or copper conductors.

Testing

Samples were constructed using Scotch® Rubber Mastic Tape 2228 as a seal between PVC cable jackets and connecting ground wires. The specimens were thermal cycled in water baths at 25°C and 90°C. The total test time of 336 hours revealed no significant change in insulation resistance. The results meet requirements listed in UL 486D Standard for Insulated Wire Connectors for Use with Underground Connectors for insulation resistance (6.0 megohms, section 7.1) and dielectric voltage withstand (2.2kV, 1 minute, section 8.1).

Storage/Shelf Life

Scotch® Rubber Mastic Tape 2228 has a five-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). Good stock rotation is recommended.

Product Stewardship

3M has a fundamental concern for all who make, distribute and use its products, and for the environment in which we live. This concern is the basis of our philosophy and policies by which we assess the health and environmental information on our products and then take the appropriate steps to protect employee, the public health and the environment.

Customer Notice

3M encourages its customers and potential users of 3M products to review their applications for such products from the standpoint of human health and environmental quality. To help ensure that 3M products are not used in ways for which they were not intended or tested. 3M personnel are available to assist customers in dealing with ecological and product safety considerations.

Regulatory Status

Scotch® Rubber Mastic Tape 2228 is compliant with EU regulation 1907/2007/EC (REACH)

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