



3M™ 2151 Rubber Splicing Tape



Product Description

3M™ 2151 Rubber Splicing Tape is a conformable, self-fusing rubber electrical insulating tape, manufactured from ethylene-propylene rubber (EPR). Suitable for applications up to 69kV.

Product Features

- High insulation properties
- Excellent conformability
- Excellent sealing properties
- Excellent and fast self-bonding without blistering
- Excellent tensile strength and elongation allowing easy application

Typical Properties

Thickness (mm)	0.51
Colour	Black
Tensile Strength (Mpa)	1.7
Elongation (%)	700
Dielectric Breakdown (kV/mm)	28
Dissipation Factor (23°C)	0.05 max
Dielectric Constant / Permissiveness (23°C)	4.0 max
Insulation Resistance (MΩ)	1014
Continuous Operating Temperature (°C)	90
Emergency Overload Temperature (°C)	130

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

Applications

- Primary electrical insulation for splicing cable from 600V to 69kV.
- Moisture sealing electrical connections.
- End sealing high-voltage cables
- Electrical insulation for splices and terminations

Installation

3M™ 2151 Electrical Tape should be applied in successive half-lapped, level-wound layers until desired build-up is reached. To eliminate voids in critical areas, highly elongate the tape. Stretch the tape in these critical areas just short of its breaking point. Doing so will not alter its physical or electrical properties. In less critical areas, less elongation may be used. Normally, 2151 Tape is stretched to ¾ of its original width in these less critical areas. Always attempt to half-lap to produce a uniform build-up. When using 2151 Tape for splicing cables from 35kV to 69kV, always elongate the tape throughout the entire splice.

Shelf Life / Storage

3M™ 2151 Tape has a five-year shelf life (from date of manufacture) when stored under the following recommended storage conditions. Keep the tape stored in its original packaging behind present stock in a clean, dry place, protected from sun light, at a temperature of 26°C 32°C, with relative humidity no more than 80%. Good stock rotation is recommended.

Testing

3M™ 2151 Tape meets ASTM D4388 – Standard Specification for Non-metallic Semi-Conducting and Electrically Insulating Rubber Tapes

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Electrical Markets Division

3M United Kingdom PLC

Sales Office

PO Box 393
Bedford MK41 0YE
Telephone: 0870 609 4639
Fax: 01234 229 433

3M Ireland Ltd

Sales Office

The Iveagh Building, The Park,
Carrickmines, Dublin 18, Ireland
Telephone: (01) 800 812 732
Fax: 353 1 280 3509

3M United Kingdom PLC

Head Office

3M Centre, Cain Road
Bracknell, Berkshire RG12 8HT
Telephone: 01344 858 000
Fax: 01344 858 758

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