

3M Data Sheet

Scotch™ 780

Vinyl Electrical Tape

1 Product Description

Scotch™ 780 Electrical Tape is a medium grade, 0.18 mm thick, all weather vinyl insulating tape. The tape consists of a PVC backing and a rubber-based pressure sensitive adhesive..

It has excellent resistance to: abrasion, moisture, alkalis, acid and various weather conditions including sunlight (black tape).It has a high dielectric strength, is conformable and provides very good mechanical protection with minimum bulk.

Scotch™ 780 is available in Black, White, Blue, Red, Green, Yellow/Green, Brown, Yellow, Grey, Orange.

2 Applications

Primary electrical insulation for all wire and cable splices and repairs. Harnessing of wires and cables. For indoor and outdoor (black) applications at temperatures from -10 to +80°C

3 Typical Properties*

| | |
|--|-------------|
| Thickness¹ | 0.18mm |
| Elongation¹ | 200 % |
| Tensile Strength¹ | 25 N/10 mm |
| Adhesion to Steel¹ | 2.4 N/10 mm |
| Adhesion to Backing¹ | 2.4 N/10 mm |

Temperature Rating -10 up to 80°C

Electric Strength¹ 45 kV/mm

Insulation Resistance¹ 10¹¹ Ω 25mm

*These are typical values and should not be used for specification purposes.

¹ IEC 60454-2

4 Installation Technique

The tape shall be applied in half-lapped layers with sufficient tension to conform and produce a uniform covering. In most applications, this tension will reduce the tape's width to 5/8 of its original width.

Apply the tape with no tension on the last wrap to prevent flagging.

5 Storage

Scotch™ 780 has a shelf live of 3 years, when stored at 23°C and 50% RH.

6 Availability

Electrical Tape is available from 3M and your local 3M authorized electrical distributor.

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