

# 3M™ Temflex™ General Use Vinyl Electrical Tape 175

### **Technical Data Sheet**

#### **Product Description**

3M™ Temflex™ General Use Vinyl Electrical Tape 175 is a 7-mil thick, high-performance general-purpose flame-retardant vinyl insulating tape. It is designed to perform in ambient temperatures up to 90°C (194°F). The tape is conformable for cold weather application down to -7°C (19°F). It has excellent resistance to abrasion, moisture, alkalies, acid, copper corrosion and varying weather conditions. The combination of an elastic PVC backing and pressure-sensitive rubber-based adhesive provides electrical and mechanical protection with minimum bulk.

- Suitable for moderate indoor and weather protected outdoor uses
- For residential and commercial environments
- Provides a protective jacket for high-voltage cable splices and repairs
- Electrical insulation for wire and cable splices rated up to 600 volts
- Harnessing and bundling of wires and cables

#### **Properties**

Physical Properties	Value	Electrical Properties	Value
Temperature Rating - UL 5101	80°C (176°F)	Voltage Rating UL 510 <sup>1</sup> CSA <sup>2</sup>	600 V 1000 V
Temperature Rating CSA - C22.2 No. 197 <sup>2</sup>	-7°C (19°F) 90°C (194°F)	Dielectric Strength³ – Minimum Standard Condition After Humidity Condition	1000 V/mil (40 kV/mm) >90% of std.
Colour - Visual	Black	Insulation Resistance <sup>3</sup> – Minimum (High Humidity Method)	>1×10 <sup>6</sup> megohm
Flame Retardant - UL 510	Pass		
Mechanical Properties	Value		
Thickness³ – Nominal	7 mils (0.178 mm)		
Adhesion to Steel <sup>3</sup> – Minimum	18 oz/in (2.0 N/cm)		
Adhesion to Backing <sup>3</sup> – Minimum	18 oz/in (2.0 N/cm)		
Breaking Strength <sup>3</sup> – Minimum	15 lb/in (27 N/cm)		
Elongation <sup>3</sup> – Nominal	200%		

#### Notes:

1. In accordance with the National Electrical Code, NFPA 70

In accordance with Canadian Electrical Code, Part 1

3. ASTM D1000 Test Method – properties measured at room temperature 23°C (73°F) unless otherwise stated

### Agency Approvals and Self Certifications

- UL Listed: UL 510 Standard "Insulating Tape", Category OANZ, File No. E129200
- CSA Listed: CSA-C22.2 No.197 "PVC Insulating Tape", File No. 048769, Class 9052-02
- For Regulatory information including RoHS, REACH, please visit 3M.ca/SDS

# 3M™ Temflex™ General Use Vinyl Electrical Tape 175

### Installation 3M™ Temflex™ General Use Vinyl Electrical Tape 175 shall be applied in half-lapped **Techniques** layers with a sufficient tension to produce a uniform wind (for most applications this tension will reduce the tape width to approximately 5/8 of original width). On pigtail splices, the tape shall be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cut-through. Wrap tape up-hill, taping from a smaller diameter surface to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging. **Shelf Life** This product has a 5-year shelf life (from date of manufacture) when stored in humiditycontrolled storage (10°C/50°F to 27°C/80°F and <75% relative humidity). and Storage **Availability** 3M™ Temflex™ General Use Vinyl Electrical Tape 175 is available from 3M authorized distributors. For more information, visit 3M.ca/Energy or call 1800-364-3577.

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