

## VR-80 High Voltage Insulation Tape



### Description

VR-80 is a self-amalgamating ethylene propylene rubber (EPR) tape used on solid dielectric cable for electrical insulation and jacketing in splices up to 69kV and for building stress cones in terminations up to 35kV. The tape comes with a separator that is removed during the taping process. Its 0,76mm thickness and quick amalgamation facilitates a rapid, void free insulation build-up that is electrically stable and moisture proof. VR-80 is suitable for use with conductors rated at 90°C with an emergency overload rating of 130°C. The tape is also resistant to corrosion, chemicals and ultra violet light. VR-80 fully meets the Table 1 requirements for Type III tape in ASTM D 4388.

### Application

- Electrical insulation and jacketing in splices of solid dielectric cable up to 69kV
- Building stress cones in terminations of solid dielectric cable up to 35kV
- Jacketing of indoor terminations
- Bus bar insulation and corrosion protection
- Jacket repair and restoration in all types of cable
- Moisture sealing applications

### Dimensions

3/4" x .030" x 30' / 19mm x 0,76mm x 9.1m

Consult us for other sizes

### Specifications

Property	Typical Value	Test Method/Reference
Thickness	0.76mm	ASTM D 4325
Tensile Strength	>2.8MPa	ASTM D 4325
Elongation at Break	>880%	ASTM D 4325
Water Absorption	0.14%	ASTM D 570
Fusion	Pass	ASTM D 4388
Operating Temperature		
Continuous	90°C	ASTM D 4388
Emergency Overload	130°C	ASTM D 4388
Dielectric Strength	37.8kV/mm	ASTM D 4325
Volume Resistivity		
(50%RH)	1x10 <sup>16</sup> Ω.cm	ASTM D 4325
(96%RH)	1x10 <sup>16</sup> Ω.cm	ASTM D 4325
Permittivity (60Hz)		
after water immersion		
24h@23°C	2.61	ASTM D 4325
after hot water immersion		
24h@70°C	2.69	ASTM D 4325
Dissipation Factor (60Hz)		
after water immersion		
24h@23°C	0.0403	ASTM D 4325
after hot water immersion		
24h@70°C	0.0394	ASTM D 4325
Insulation Resistance	1.42x10 <sup>13</sup>	ASTM D 1000
Ozone Resistance	Pass	ASTM D 4325
Copper Corrosion	Pass	ASTM D 69-06
Heat Exposure	Pass at 130°C	ASTM D 4325
UV Resistance	Pass	ASTM D 4325
Xenon-arc Exposure @1008h	Pass	ASTM D 4325

\*Data in table represent typical of test results and are not to be used for specification purposes.  
\*The product user should make their own tests to determine the product's suitability for their intended use.