



W963 PLYSAFE®

EPR High Voltage Tape

Technical Data Sheet

October 2017

Description and Features

W963 Plysafe® is a 30 mil (0,76mm) ethylene propylene rubber, self-amalgamating high voltage tape for insulating and jacketing splices though 69kV. **W963 Plysafe®** amalgamates quickly, yielding a void-free, electrically stable build-up and is ideal for waterproofing. Meets ASTM D-4388, HH-I-553C/Grade A, MIL-I3825B standards.

- Self amalgamating
- Outstanding corona and ozone resistance
- UV resistance
- Excellent moisture, corrosion and chemical resistance

Materials	Backing	Adhesive	Color	Standard Sizes	
	EPR Rubber		Black	Width	Length
				19 mm x 9,1 m (0,75" x 30')	38 mm x 9,1 m (1,5" x 30')
				Other sizes available upon request	
Technical Properties	Characteristic	Typical Value	Test Method		
	Thickness, (mm)	0,76	ASTM D 4325		
	Breaking strength (MPa)	2,3	ASTM D 412		
	Elongation at break (%)	950	ASTM D 412		
	Fusion (2,0mm max)	No Flag	ASTM D 4325		
	Heat Resistance (°C)	130	ASTM D 4325		
	Operating Temp.(°C)				
	Continuous (°C)	90	ASTM D 4325		
	Emergency Overload (°C)	130	ASTM D 4325		
	Water Absorption (%)	0,06	ASTM D 570		
	Ozone Resistance	Pass	ASTM D 4325		
	UV Resistance	Pass	ASTM D 4325		
	Dielectric Strength (kV/mm)	39,5	ASTM D 149		
	Dissipation Factor				
	24h @ 23°C	0,005	ASTM D 150		
	168h @ 70°C	0,015	ASTM D 150		
	Dielectric Constant				
	24h @ 23°C	2,7	ASTM D 150		
	168h @ 70°C	2,9	ASTM D 150		
	Volume Resistivity (Ω.cm)				
	96h @ 23°C and 50% RH	1x10 ¹⁶	ASTM D 257		
	96h @ 23°C and 96% RH	1x 10 ¹³	ASTM D 257		
Recommended Uses	For insulating and jacketing of splices on power cable from 600 volts through 69,000 volts and for building stress cones and for jacketing of terminations on power cable through 35000 volts. Provides a moisture seal for all waterproofing needs and insulations and protects bus components. Due to its highly stable mechanical and chemical properties, W963 Plysafe® is ideal for cable jacket repair and restoration.				
Storage	In original packaging, placed in horizontal position under cover and temperature between 5°C and 35 °C.				
Shelf Life	60 months from date of manufacture.				

Information provided is for reference only. Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use

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