

Plymouth

Plymouth Rubber Europa S.A

3 Bi-Seal Polyethylene & EPR High Voltage Insulating and Jacketing Tape

Description

3 Bi-Seal 20 (20 mil) and 3 Bi-Seal 30 (30 Mil) are polyethylene and ethylene propylene rubber based tapes possessing superior electrical, chemical, mechanical and thermal properties. 3 Bi-Seal fuses quickly, yielding a void-free, electrically stable build up. For insulating and jacketing of splices on power cables from 600 volts through 69kV and for building stress cones and jacketing of terminations on power cable from 35kV. ASTM-D-4388, HH-1-553C.

Recommended Uses

For insulating and jacketing of splices on power cable through 69,000 volts and for building stress cones and jacketing of terminations on power cable through 35,000 volts. Use for insulating electronic circuits and sealing service entrance connections and conduit couplings.

Specifications

Property	20	30	Unit	Test Method
Physical				
Color	Black	Black	---	---
Thickness	0,51	0,76	mm	ASTM D 4388
	0,020	0,030	inch	ASTM D 4388
Tensile Strength	250	250	psi	ASTM D 4388
	1,7	1,7	MPa	ASTM D 4388
Elongation	700 Min.	700 Min.	%	ASTM D 4388
Fusion	2 Max	2 Max	mm	ASTM D 4388
	5/64 Max	5/64 Max	inch	ASTM D 4388
Heat Resistance	130	130	°C	ASTM D 4388
Operating Temperature				
Continuous	90	90	°C	ASTM D 4388
Emergency Overload	130	130	°C	ASTM D 4388

Chemical				
Water Absorption	0,02	0,02	%	ASTM D 570
Ozone Resistance	Pass	Pass	Visual	ASTM D 4388
UV Resistance	Pass	Pass	Visual	ASTM D 4388

Electrical				
Dielectric Strength	27,6 Min	23,6 Min	kV/mm	ASTM D 4388
	700 Min	600 Min	V/mil	ASTM D 4388
Dielectric Constant				
24 h @ 23 °C	2,7	2,7	---	ASTM D 4388
168 h @ 70 °C	2,9	2,9	---	ASTM D 4388
Dissipation Factor				
24 h @ 23 °C	0,003	0,003	---	ASTM D 4388
168 h @ 70 °C	0,008	0,008	---	ASTM D 4388
Volume Resistivity				
96 h @ 28 °C and 50 % RH	10 ¹⁶	10 ¹⁶	ohm · cm	ASTM D 4388
96 h @ 23 °C and 96 % RH	10 ¹³	10 ¹³	ohm · cm	ASTM D 4388

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.

Features

- Self-Amalgamating
- Superior corona and ozone resistance
- UV Resistant
- Excellent moisture, corrosion and Chemical resistance
- Excellent temperature characteristics

Product Approvals

- ASTM-D-4388
- HH-1-553C

Standard Sizes

- 3/4 in x 30 ft
19 mm x 9 m
- 1 in x 30 ft
25 mm x 9 m
- 1 1/2 in x 30 ft
38 mm x 9 m
- 2 in X 30 ft
51 mm x 9 m

Consult factory for other sizes

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