

Elektro-Isola Etronax DN Phenolic, Cotton Fabric Reinforcement, Brown, Tubes

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: A strong and tough material. Very low water absorption and the lowest swelling in water. Very good low-friction material. High wear resistance in aggressive and dust-filled environments. Can be lubricated with water, oil or grease. Good dry-run properties. Applications: Bearing bushings and guide rings for hydraulic cylinders. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-Etronax-DN-Phenolic-Cotton-Fabric-Reinforcement-Brown-Tubes.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 61212-2 7.3
	@Thickness >=0.000 mm	@Thickness >=0.000 in	
Water Absorption	0.10 %	0.10 %	24hr/50°C+24hr in water at 23°C; ISO 62-1; IEC/EN 61212-2 7.2

Mechanical Properties	Metric	English	Comments
Flexural Strength	85.0 MPa	12300 psi	24hr/23°C/50% RH; ISO 178; IEC/EN 61212-2 5.1
	@Diameter >=100 mm	@Diameter >=3.94 in	
Compressive Strength	140 MPa	20300 psi	50% RH, Axial; ISO 604; IEC/EN 61212-2 5.2
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Adhesive Bond Strength	180 MPa	26100 psi	24hr/23°C/50% RH; IEC 60212-2; IEC/EN 61212-2 5.3
	@Diameter <=100 mm	@Diameter <=3.94 in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	130 °C	266 °F	IEC 60695-11-10; IEC/EN 61212-2 7.1
	@Thickness 3.00 mm, Time 7.20e+7 sec	@Thickness 0.118 in, Time 20000 hour	

Electrical Properties	Metric	English	Comments
Insulation Resistance	5.00e+9 ohm	5.00e+9 ohm	24hr/50°C+24h in water at 23°C; IEC; IEC/EN 61212-2 6.2
	@Diameter 8.00 - 10.0 mm	@Diameter 0.315 - 0.394 in	
Dielectric Constant	4.0	4.0	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	
	3.00 kV/mm	76.2 kV/in	24hr/23°C/50% RH+1hr/oil 90°C;

Dielectric Strength Electrical Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	Perpendicular; IEC 60243-1; IEC/EN 61212-2 6.1.2.1 Comments
	2.00 kV/mm @Diameter >=3.00 mm	50.8 kV/in @Diameter >=0.118 in	24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60243-1; IEC/EN 61212- 2 6.1.2.1
Dissipation Factor	0.040 @Frequency 50.0 Hz	0.040 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3

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