

Elektro-Isola Etronax P EP Phenolic, Polyester Fabric Reinforcement, Light Yellow, Sheets

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: This material is exceptionally strong and tough. Very low water absorption and the lowest swelling in water. High resistance to chemicals, including SF6 gas. Applications: Can be used in high-voltage switchgear in which SF6 gas is used as the insulation medium. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-Etronax-P-EP-Phenolic-Polyester-Fabric-Reinforcement-Light-Yellow-Sheets.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	0.27 %	0.27 %	24hr/50°C+24hr in water at 23°C, Test Specimen 50x50x3[mm]; ISO 62-1; IEC/EN 60893-2 8.2

Mechanical Properties	Metric	English	Comments
Tensile Strength	135 MPa @Thickness >=1.50 mm	19600 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 527; IEC/EN 60893-2 5.6
Modulus of Elasticity	4.50 GPa @Thickness >=1.50 mm	653 ksi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
Flexural Strength	150 MPa @Thickness >=1.50 mm	21800 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
Compressive Strength	450 MPa @Thickness >=5.00 mm	65300 psi @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
Shear Strength	35.0 MPa @Thickness >=5.00 mm	5080 psi @Thickness >=0.197 in	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
Izod Impact, Notched (ISO)	50.0 kJ/m ² @Thickness >=5.00 mm	23.8 ft-lb/in ² @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 180/2A; IEC/EN 60893-2 5.4.3

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	130 °C @Thickness 0.000 mm, Time 7.20e+7 sec	266 °F @Thickness 0.000 in, Time 20000 hour	IEC 60216; IEC/EN 60893-2 7.1

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+11 ohm	1.00e+11 ohm	24hr/50°C+24h in water at 23°C; IEC 60167; IEC/EN 60893-2 6.3
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Dielectric Constant	4.0	4.0	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	@Thickness <=3.00 mm, Frequency 50.0 Hz	@Thickness <=0.118 in, Frequency 50.0 Hz	
Dielectric Strength	2.80 kV/mm	71.1 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60245-1; IEC/EN 60893-2 6.1.3.2
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Dielectric Strength	20.0 kV/mm	508 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60245-1; IEC/EN 60893-2 6.1.3.1
	@Thickness 3.00 mm	@Thickness 0.118 in	
Dissipation Factor	0.010	0.010	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	
Comparative Tracking Index	200 V	200 V	IEC 60112; IEC/EN 60893-2 6.4
	@Thickness 3.00 mm	@Thickness 0.118 in	

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