

Elektro-Isola G-Etronax EP S Epoxy, Glass Fabric Reinforcement, Green, Sheets

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler

Material Notes:

Description: Particularly good electrical and mechanical properties by continuous use, even at high temperatures. Very good chemical resistance. Engineering and insulation material in electrical machinery, transformers and chemical plants. Suitable for mechanical applications. The flexural strength and modulus of elasticity values are measured along the sheet. Applications: Wear parts/vanes in oil-lubricated vacuum pumps. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-EP-S-Epoxy-Glass-Fabric-Reinforcement-Green-Sheets.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	0.20 %	0.20 %	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	320 MPa @Thickness >=1.50 mm	46400 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 527; IEC/EN 60893-2 5.6
Modulus of Elasticity	24.0 GPa @Thickness >=1.50 mm	3480 ksi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
Flexural Strength	375 MPa @Thickness >=1.50 mm	54400 psi @Thickness >=0.0591 in	1hr/180°C/measured at 180°C; ISO 178; IEC/EN 60893-2 5.1
	500 MPa @Thickness >=1.50 mm	72500 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
Compressive Strength	600 MPa @Thickness >=5.00 mm	87000 psi @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
Shear Strength	60.0 MPa @Thickness >=5.00 mm	8700 psi @Thickness >=0.197 in	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
Izod Impact, Notched (ISO)	80.0 kJ/m ² @Thickness >=5.00 mm	38.1 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	200 °C @Thickness 0.000 mm, Time 7.20e+7 sec	392 °F @Thickness 0.000 in, Time 20000 hour	IEC 60216; IEC/EN 60893-2 7.1

Electrical Properties	Metric	English	Comments
Insulation Resistance	2.00e+11 ohm @Thickness >=3.00 mm	2.00e+11 ohm @Thickness >=0.118 in	24hr/50°C+24h in water at 23°C; IEC 60167; IEC/EN 60893-2 6.3
Dielectric Constant	5.0 @Thickness <=3.00 mm, Frequency 50.0 Hz	5.0 @Thickness <=0.118 in, Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	5.0 @Thickness <=3.00 mm, Frequency 1.00e+6 Hz	5.0 @Thickness <=0.118 in, Frequency 1.00e+6 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
Dielectric Strength	3.20 kV/mm @Thickness >=3.00 mm	81.3 kV/in @Thickness >=0.118 in	24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60245-1; IEC/EN 60893-2 6.1.3.2
	18.0 kV/mm @Thickness 3.00 mm	457 kV/in @Thickness 0.118 in	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60245-1; IEC/EN 60893-2 6.1.3.1
Dissipation Factor	0.0080 @Frequency 50.0 Hz	0.0080 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	0.010 @Frequency 1.00e+6 Hz	0.010 @Frequency 1.00e+6 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
Comparative Tracking Index	400 V @Thickness 3.00 mm	400 V @Thickness 0.118 in	IEC 60112; IEC/EN 60893-2 6.4

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