Elektro-Isola G-Etronax EP 11 Epoxy, Glass Fabric Reinforcement, Green, Sheets

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

Material Notes:

Description: High resistance to chemicals. Particularly good, lasting strength properties and insulation values even at high application temperatures. Radiation-resistant. Can be used at cryogenic temperatures. Applications: Engineering and insulation material in electrical machinery, transformers and chemical plants.Information provided by Elektro-Isola

Order this product through the following link:
http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-EP-11-Epoxy-Glass-Fabric-Reinforcement-Green-Sheets.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in³	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	22.0 GPa @Thickness >=1.50 mm	3190 ksi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
Flexural Strength	300 MPa @Thickness >=1.50 mm	43500 psi @Thickness >=0.0591 in	1hr/150°C/measured at 150°C; ISO 178; IEC/EN 60893-2 5.1
	450 MPa @Thickness >=1.50 mm	65300 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
	70.0 MPa @Treatment Temp. 250 °C, Time 3600 sec	10200 psi @Treatment Temp. 482 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	110 MPa @Treatment Temp. 200 °C, Time 3600 sec	16000 psi @Treatment Temp. 392 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	300 MPa	43500 psi	

Mechanical Properties	Metric	English	Comments
	@Treatment Temp. 150 °C, Time 3600 sec	@Treatment Temp. 302 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	380 MPa @Treatment Temp. 100 °C, Time 3600 sec	55100 psi @Treatment Temp. 212 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	410 MPa @Treatment Temp. 50.0 °C, Time 3600 sec	59500 psi @Treatment Temp. 122 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	450 MPa @Treatment Temp. 20.0 °C, Time 3600 sec	65300 psi @Treatment Temp. 68.0 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
Compressive Strength	550 MPa @Thickness >=5.00 mm	79800 psi @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
	340 MPa @Treatment Temp. 250 °C, Time 3600 sec	49300 psi @Treatment Temp. 482 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	360 MPa @Treatment Temp. 200 °C, Time 3600 sec	52200 psi @Treatment Temp. 392 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	400 MPa @Treatment Temp. 150 °C, Time 3600 sec	58000 psi @Treatment Temp. 302 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	450 MPa @Treatment Temp. 100 °C, Time 3600 sec	65300 psi @Treatment Temp. 212 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	530 MPa @Treatment Temp. 50.0 °C, Time 3600 sec	76900 psi @Treatment Temp. 122 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	570 MPa @Treatment Temp. 20.0 °C, Time 3600 sec	82700 psi @Treatment Temp. 68.0 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	55.0 MPa	7980 psi	24hr/23°C/50% RH; IEC/EN 60893-2

Mechanical Properties	Metric	English	Comments
Shear Strength	@Thickness >=5.00 mm	@Thickness >=0.197 in	5.5
Izod Impact, Notched (ISO)	65.0 kJ/m² @Thickness >=5.00 mm	30.9 ft-lb/in² @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	180 °C @Thickness 0.000 mm, Time 7.20e+7 sec	356 °F @Thickness 0.000 in, Time 20000 hour	IEC 60216; IEC/EN 60893-2 7.1

Electrical Properties	Metric	English	Comments
Insulation Resistance	5.00e+11 ohm @Thickness >=3.00 mm	5.00e+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	2.80 kV/mm @Thickness >=3.00 mm	71.1 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	200 V @Thickness 3.00 mm	200 V @Thickness 0.118 in	IEC 60112; IEC/EN 60893-2 6.4

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