

Elektro-Isola G-Etronax EP 203 Epoxy, Glass Fabric Reinforcement, Light Yellow, Sheets

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

Material Notes:

Description: High mechanical strength at elevated temperatures. Very good stability of electrical properties under high humidity.

Mechanical, electrical and electronic applications. Can be used at cryogenic temperatures. Very good resistance to chemicals. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-EP-203-Epoxy-Glass-Fabric-Reinforcement-Light-Yellow-Sheets.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 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	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	280 MPa @Thickness >=1.50 mm	40600 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
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
Shear Strength	50.0 MPa @Thickness >=5.00 mm	7250 psi @Thickness >=0.197 in	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
Izod Impact, Notched (ISO)	65.0 kJ/m ² @Thickness >=5.00 mm	30.9 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	160 °C @Thickness 0.000 mm, Time 7.20e+7 sec	320 °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	4.5 @Thickness <=3.00 mm, Frequency 50.0 Hz	4.5 @Thickness <=0.118 in, Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	4.5 @Thickness <=3.00 mm, Frequency 1.00e+6 Hz	4.5 @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	2.40 kV/mm @Thickness >=3.00 mm	61.0 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
	16.0 kV/mm @Thickness 3.00 mm	406 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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