

Elektro-Isola G-Etronax EP 22 Epoxy, Glass Fabric Reinforcement, Light Yellow, Tubes

Category : Polymer , Thermoset , Epoxy

Material Notes:

Description: Particularly good electrical and mechanical properties. Extremely high mechanical strength, even at high temperatures.

Retains electrical properties at high air humidity. High resistance to chemicals. Applications: Engineering and insulation material in large rotating electrical machines and insulation cylinders in dry transformers. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-EP-22-Epoxy-Glass-Fabric-Reinforcement-Light-Yellow-Tubes.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc @Thickness >=0.000 mm	0.0632 lb/in ³ @Thickness >=0.000 in	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 61212-2 7.3
Water Absorption	0.020 %	0.020 %	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	350 MPa @Diameter >=100 mm	50800 psi @Diameter >=3.94 in	24hr/23°C/50% RH, 230 Mpa measured at 150°C; ISO 178; IEC/EN 61212-2 5.1
Compressive Strength	200 MPa @Temperature 23.0 °C, Time 86400 sec	29000 psi @Temperature 73.4 °F, Time 24.0 hour	50% RH, Axial; ISO 604; IEC/EN 61212-2 5.2
Adhesive Bond Strength	400 MPa @Diameter <=100 mm	58000 psi @Diameter <=3.94 in	24hr/23°C/50% RH; IEC 60212-2; IEC/EN 61212-2 5.3

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	160 °C @Thickness 3.00 mm, Time 7.20e+7 sec	320 °F @Thickness 0.118 in, Time 20000 hour	IEC 60695-11-10; IEC/EN 61212-2 7.1

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+10 ohm @Diameter 8.00 - 10.0 mm	1.00e+10 ohm @Diameter 0.315 - 0.394 in	24hr/50°C+24h in water at 23°C; IEC; IEC/EN 61212-2 6.2
Dielectric Constant	4.5 @Frequency 50.0 Hz	4.5 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
Dielectric Strength	11.0 kV/mm	279 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60243-1; IEC/EN 61212-2 6.1.2.1
	@Thickness 3.00 mm	@Thickness 0.118 in	
	2.40 kV/mm	61.0 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60243-1; IEC/EN 61212-2 6.1.2.1
	@Diameter >=3.00 mm	@Diameter >=0.118 in	
Dissipation Factor	0.010	0.010	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	
	0.010	0.010	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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