

Elektro-Isola G-Etronax SI Silicone, Glass Fabric Reinforcement, White, Tubes

Category : Polymer , Thermoset , Silicone , Silicone, Molded, Glass Fiber Filled

Material Notes:

Description: Used in mechanical, electrical and electronic applications at elevated temperatures. Retains good electrical properties at high temperatures. Self-extinguishing. Low dielectric loss factor at high frequencies. Applications: Nozzle insulators in wire welding guns where a shielding gas is used. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-SI-Silicone-Glass-Fabric-Reinforcement-White-Tubes.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 61212-2 7.3
	@Thickness >=0.000 mm	@Thickness >=0.000 in	
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	120 MPa	17400 psi	24hr/23°C/50% RH; ISO 178; IEC/EN 61212-2 5.1
	@Diameter >=100 mm	@Diameter >=3.94 in	
Compressive Strength	65.0 MPa	9430 psi	50% RH, Axial; ISO 604; IEC/EN 61212-2 5.2
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Adhesive Bond Strength	150 MPa	21800 psi	24hr/23°C/50% RH; IEC 60212-2; IEC/EN 61212-2 5.3
	@Diameter <=100 mm	@Diameter <=3.94 in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	210 °C	410 °F	IEC 60695-11-10; IEC/EN 61212-2 7.1
	@Thickness 3.00 mm, Time 7.20e+7 sec	@Thickness 0.118 in, Time 20000 hour	
Flammability, UL94	V-0	V-0	IEC 60695-11-10; IEC/EN 61212-2 7.4
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Insulation Resistance	5.00e+9 ohm	5.00e+9 ohm	24hr/50°C+24h in water at 23°C; IEC; IEC/EN 61212-2 6.2
	@Diameter 8.00 - 10.0 mm	@Diameter 0.315 - 0.394 in	
	4.0	4.0	96hr/105°C+1hr/23°C/20%RH; IEC

Dielectric Constant Electrical Properties	Metric @Frequency 50.0 Hz	English @Frequency 50.0 Hz	250; IEC/EN 61212-2 6.3 Comments
	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
Dielectric Strength	6.70 kV/mm @Thickness 3.00 mm	170 kV/in @Thickness 0.118 in	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60243-1; IEC/EN 61212-2 6.1.2.1
	1.60 kV/mm @Diameter >=3.00 mm	40.6 kV/in @Diameter >=0.118 in	24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60243-1; IEC/EN 61212- 2 6.1.2.1
Dissipation Factor	0.0060 @Frequency 50.0 Hz	0.0060 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
	0.0060 @Frequency 1000 Hz	0.0060 @Frequency 1000 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3

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