

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

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

Material Notes:

Description: Electrical and electrotechnical applications. Suitable as high-frequency insulation on account of its dielectric loss. Used as, among other things, an insulation material in large induction furnaces for smelting metal. Can be used as material for lampshades in thicknesses under 0.4 mm on account of the material's great flexibility, high heat resistance and color stability. 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-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	0.16 %	0.16 %	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	160 MPa	23200 psi	24hr/23°C/50% RH; ISO 527; IEC/EN 60893-2 5.6
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
Modulus of Elasticity	13.0 GPa	1890 ksi	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
Flexural Strength	135 MPa	19600 psi	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	30.0 MPa	4350 psi	ISO 178; IEC/EN 60893-2 5.1
	@Treatment Temp. 200 °C, Time 3600 sec	@Treatment Temp. 392 °F, Time 1.00 hour	
	40.0 MPa	5800 psi	ISO 178; IEC/EN 60893-2 5.1
	@Treatment Temp. 250 °C, Time 3600 sec	@Treatment Temp. 482 °F, Time 1.00 hour	
	40.0 MPa	5800 psi	ISO 178; IEC/EN 60893-2 5.1
	@Treatment Temp. 150 °C, Time 3600 sec	@Treatment Temp. 302 °F, Time 1.00 hour	
	60.0 MPa	8700 psi	

Mechanical Properties	Metric @ Treatment Temp. 100 °C, Time 3600 sec	English @ Treatment Temp. 212 °F, Time 1.00 hour	Comments IEC/EN 60893-2 5.1
	100 MPa	14500 psi	
	@Treatment Temp. 50.0 °C, Time 3600 sec	@Treatment Temp. 122 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	140 MPa	20300 psi	
	@Treatment Temp. 20.0 °C, Time 3600 sec	@Treatment Temp. 68.0 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
Compressive Strength	330 MPa	47900 psi	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
	@Thickness >=5.00 mm	@Thickness >=0.197 in	
	110 MPa	16000 psi	
	@Treatment Temp. 250 °C, Time 3600 sec	@Treatment Temp. 482 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	150 MPa	21800 psi	
	@Treatment Temp. 200 °C, Time 3600 sec	@Treatment Temp. 392 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	230 MPa	33400 psi	
	@Treatment Temp. 150 °C, Time 3600 sec	@Treatment Temp. 302 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	270 MPa	39200 psi	
	@Treatment Temp. 100 °C, Time 3600 sec	@Treatment Temp. 212 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	310 MPa	45000 psi	
	@Treatment Temp. 50.0 °C, Time 3600 sec	@Treatment Temp. 122 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	330 MPa	47900 psi	
	@Treatment Temp. 20.0 °C, Time 3600 sec	@Treatment Temp. 68.0 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
Shear Strength	15.0 MPa	2180 psi	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
	@Thickness >=5.00 mm	@Thickness >=0.197 in	
Izod Impact, Notched (ISO)	45.0 kJ/m²	21.4 ft-lb/in²	24hr/23°C/50% RH; ISO 180/2A; IEC/EN 60893-2 5.4.3
	@Thickness >=5.00 mm	@Thickness >=0.197 in	

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	210 °C @Thickness 0.000 mm, Time 7.20e+7 sec	410 °F @Thickness 0.000 in, Time 20000 hour	IEC 60216; IEC/EN 60893-2 7.1
Flammability, UL94	V-0	V-0	IEC/EN 60893-2 7.2; IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+11 ohm @Thickness >=3.00 mm	1.00e+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	4.0 @Thickness <=3.00 mm, Frequency 50.0 Hz	4.0 @Thickness <=0.118 in, Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	4.0 @Thickness <=3.00 mm, Frequency 1.00e+6 Hz	4.0 @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	2.00 kV/mm @Thickness >=3.00 mm	50.8 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
	7.00 kV/mm @Thickness 3.00 mm	178 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	0.0030 @Frequency 50.0 Hz	0.0030 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	0.0030 @Frequency 1.00e+6 Hz	0.0030 @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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