

Elektro-Isola G-Etronax B Phenolic, Glass Fabric Reinforcement, Dark Brown, Sheet

Category : Polymer , Thermoset , Phenolic , Phenolic/Glass Fiber SMC

Material Notes:

High performance/price ratio insulation material. Self-extinguishing, halogen-free, very low smoke emission and toxicity. Mechanically much stronger than the Etronit and Etronax types. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-B-Phenolic-Glass-Fabric-Reinforcement-Dark-Brown-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	0.53 %	0.53 %	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	250 MPa	36300 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	19.0 GPa	2760 ksi	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
Flexural Strength	120 MPa	17400 psi	ISO 178; IEC/EN 60893-2 5.1
	@Thickness >=250 mm	@Thickness >=9.84 in	
	160 MPa	23200 psi	ISO 178; IEC/EN 60893-2 5.1
	@Thickness >=200 mm	@Thickness >=7.87 in	
	210 MPa	30500 psi	ISO 178; IEC/EN 60893-2 5.1
	@Thickness >=150 mm	@Thickness >=5.91 in	
	330 MPa	47900 psi	ISO 178; IEC/EN 60893-2 5.1
	@Thickness >=50.0 mm	@Thickness >=1.97 in	
	350 MPa	50800 psi	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	350 MPa	50800 psi	ISO 178; IEC/EN 60893-2 5.1
	@Thickness >=20.0 mm	@Thickness >=0.787 in	

Mechanical Properties	370 MPa Metric	53700 psi English	Comments
	@Thickness >=100 mm	@Thickness >=3.94 in	ISO 604; IEC/EN 60893-2 5.1
Compressive Strength	500 MPa	72500 psi	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
	@Thickness >=5.00 mm	@Thickness >=0.197 in	
	400 MPa	58000 psi	
	@Treatment Temp. 250 °C, Time 3600 sec	@Treatment Temp. 482 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	430 MPa	62400 psi	
	@Treatment Temp. 200 °C, Time 3600 sec	@Treatment Temp. 392 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	470 MPa	68200 psi	
	@Treatment Temp. 150 °C, Time 3600 sec	@Treatment Temp. 302 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	530 MPa	76900 psi	
	@Treatment Temp. 100 °C, Time 3600 sec	@Treatment Temp. 212 °F, Time 1.00 hour	ISO 604; IEC/EN 60893-2 5.3
	620 MPa	89900 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
	660 MPa	95700 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	50.0 MPa	7250 psi	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
	@Thickness >=5.00 mm	@Thickness >=0.197 in	
Izod Impact, Notched (ISO)	55.0 kJ/m²	26.2 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	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	155 °C	311 °F	IEC 60216; IEC/EN 60893-2 7.1
	@Thickness 0.000 mm, Time 7.20e+7 sec	@Thickness 0.000 in, Time 20000 hour	
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+9 ohm	1.00e+9 ohm	24hr/50°C+24h in water at 23°C; IEC 60167; IEC/EN 60893-2 6.3
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Dielectric Constant	5.0	5.0	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	@Thickness <=3.00 mm, Frequency 50.0 Hz	@Thickness <=0.118 in, Frequency 50.0 Hz	
Dielectric Strength	1.20 kV/mm	30.5 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60245-1; IEC/EN 60893-2 6.1.3.2
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	10.0 kV/mm	254 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60245-1; IEC/EN 60893-2 6.1.3.1
	@Thickness 3.00 mm	@Thickness 0.118 in	
Dissipation Factor	0.030	0.030	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	
Comparative Tracking Index	100 V	100 V	IEC 60112; IEC/EN 60893-2 6.4
	@Thickness 3.00 mm	@Thickness 0.118 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China