

Elektro-Isola G-Etronax PI Polyimide, Glass Fabric Reinforcement, Dark Brown, Sheets

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Description: The most temperature-resistant material of all types. Retains its outstanding mechanical properties even at very high application temperatures. Applications: Used as thermal insulation plates in moulds, dies, casting tools, presses and similar where the requirements for compression strength and temperature resistance are rigorous. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-PI-Polyimide-Glass-Fabric-Reinforcement-Dark-Brown-Sheets.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	0.33 %	0.33 %	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	46400 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	25.0 GPa	3630 ksi	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
Flexural Strength	360 MPa	52200 psi	1hr/2000°C/measured at 2000°C; ISO 178; IEC/EN 60893-2 5.1
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	450 MPa	65300 psi	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	370 MPa	53700 psi	ISO 178; IEC/EN 60893-2 5.1
	@Treatment Temp. 200 °C, Time 3600 sec	@Treatment Temp. 392 °F, Time 1.00 hour	
	380 MPa	55100 psi	ISO 178; IEC/EN 60893-2 5.1
	@Treatment Temp. 250 °C, Time 3600 sec	@Treatment Temp. 482 °F, Time 1.00 hour	
	430 MPa	62400 psi	

Mechanical Properties	@Treatment Temp. 150 °C, Metric	@Treatment Temp. 302 °F, English	ISO 178; IEC/EN 60893-2 5.1 Comments
	Time 3600 sec	Time 1.00 hour	
	470 MPa	68200 psi	
	@Treatment Temp. 100 °C, Time 3600 sec	@Treatment Temp. 212 °F, Time 1.00 hour	ISO 178; IEC/EN 60893-2 5.1
	490 MPa	71100 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
	500 MPa	72500 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	650 MPa	94300 psi	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
	@Thickness >=5.00 mm	@Thickness >=0.197 in	
Shear Strength	55.0 MPa	7980 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	200 °C	392 °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
	@Thickness >=4.00 mm	@Thickness >=0.157 in	

Electrical Properties	Metric	English	Comments
Insulation Resistance	5.00e+11 ohm	5.00e+11 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	4.0	4.0	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	2.40 kV/mm	61.0 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	

Electrical Properties	20.0 kV/mm Metric	508 kV/in English	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60245-1; IEC/EN Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	60893-2 6.1.3.1
Dissipation Factor	0.010 @Frequency 50.0 Hz	0.010 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
Comparative Tracking Index	250 V @Thickness 3.00 mm	250 V @Thickness 0.118 in	IEC 60112; IEC/EN 60893-2 6.4

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