

Elektro-Isola G-Etronax M Melamine, Glass Fabric Reinforcement, White, Sheets

Category : Polymer , Thermoset , Melamine , Melamine Formaldehyde, Molded, Glass Fiber Filler

Material Notes:

Description: Melamine-based composite material reinforced with glass fabric. High arc resistance and tracking resistance. Flame-resistant. Self-extinguishing. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-M-Melamine-Glass-Fabric-Reinforcement-White-Sheets.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	2.53 %	2.53 %	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 @Thickness >=1.50 mm	36300 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 527; IEC/EN 60893-2 5.6
Modulus of Elasticity	18.0 GPa @Thickness >=1.50 mm	2610 ksi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
Flexural Strength	350 MPa @Thickness >=1.50 mm	50800 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
Compressive Strength	450 MPa @Thickness >=5.00 mm	65300 psi @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
Shear Strength	30.0 MPa @Thickness >=5.00 mm	4350 psi @Thickness >=0.197 in	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
Izod Impact, Notched (ISO)	60.0 kJ/m ² @Thickness >=5.00 mm	28.6 ft-lb/in ² @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 180/2A; IEC/EN 60893-2 5.4.3

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	130 °C @Thickness 0.000 mm, Time 7.20e+7 sec	266 °F @Thickness 0.000 in, Time 20000 hour	IEC 60216; IEC/EN 60893-2 7.1

Flammability, UL 94 Thermal Properties	V-0 Metric	V-0 English	IEC/EN 60893-2 7.2; IEC 60695-11-10 Comments
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Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+8 ohm @Thickness >=3.00 mm	1.00e+8 ohm @Thickness >=0.118 in	24hr/50°C+24h in water at 23°C; IEC 60167; IEC/EN 60893-2 6.3
Dielectric Constant	5.5 @Thickness <=3.00 mm, Frequency 50.0 Hz	5.5 @Thickness <=0.118 in, Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
Dielectric Strength	0.800 kV/mm @Thickness >=3.00 mm	20.3 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
	5.00 kV/mm @Thickness 3.00 mm	127 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	0.010 @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	600 V @Thickness 3.00 mm	600 V @Thickness 0.118 in	IEC 60112; IEC/EN 60893-2 6.4

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