

Elektro-Isola Etronax MMF Phenolic, Cotton Fabric Reinforcement, Brown, Sheets

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Reinforced with a finer cotton fabric than Etronax MF. Also well suited in particular for small components which are subject to mechanical load and wear. Can be machined to finer tolerances and smoother surface finish and Etronax MF. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-Etronax-MMF-Phenolic-Cotton-Fabric-Reinforcement-Brown-Sheets.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	1.33 %	1.33 %	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	100 MPa @Thickness >=1.50 mm	14500 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 527; IEC/EN 60893-2 5.6
Modulus of Elasticity	7.00 GPa @Thickness >=1.50 mm	1020 ksi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
Flexural Strength	130 MPa @Thickness >=1.50 mm	18900 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
Compressive Strength	280 MPa @Thickness >=5.00 mm	40600 psi @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
Shear Strength	50.0 MPa @Thickness >=5.00 mm	7250 psi @Thickness >=0.197 in	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Thickness >=5.00 mm	3.33 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	100 °C @Thickness 0.000 mm, Time 7.20e+7 sec	212 °F @Thickness 0.000 in, Time 20000 hour	IEC 60216; IEC/EN 60893-2 7.1

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+6 ohm	1.00e+6 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 Strength	0.600 kV/mm	15.2 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	
	2.00 kV/mm	50.8 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	
Comparative Tracking Index	100 V	100 V	IEC 60112; IEC/EN 60893-2 6.4
	@Thickness 3.00 mm	@Thickness 0.118 in	

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