

Elektro-Isola Etronax MMMF Phenolic, Cotton Fabric Reinforcement, Light Brown, Sheets

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Friction reducing material consisting of phenolic resin and a very fine cotton fabric. Exclusively for mechanical applications.

Good dry-run properties but can be lubricated with oil, grease or water. Well suited where narrow tolerances and low surface roughness are required. Applications: Wear parts/vanes in air pumps. Information provided by Elektro-Isola

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	0.80 %	0.80 %	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	90.0 MPa @Thickness >=1.50 mm	13100 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 527; IEC/EN 60893-2 5.6
Modulus of Elasticity	8.00 GPa @Thickness >=1.50 mm	1160 ksi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
Flexural Strength	140 MPa @Thickness >=1.50 mm	20300 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)	6.00 kJ/m ² @Thickness >=5.00 mm	2.86 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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