

Elektro-Isola Etronit 201M S Phenolic, Paper Reinforcement, Black, Sheets

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Grade with high mechanical properties but the lowest electrical properties of all Etronit types. Used for mechanical applications. The material is black throughout. Used where the mechanical properties are important and where a decorative black laminate is required. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-Etronit-201M-S-Phenolic-Paper-Reinforcement-Black-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	3.73 %	3.73 %	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	130 MPa @Thickness >=1.50 mm	18900 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	170 MPa @Thickness >=1.50 mm	24700 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
Compressive Strength	310 MPa @Thickness >=5.00 mm	45000 psi @Thickness >=0.197 in	24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3
Shear Strength	35.0 MPa @Thickness >=5.00 mm	5080 psi @Thickness >=0.197 in	24hr/23°C/50% RH; IEC/EN 60893-2 5.5
Izod Impact, Notched (ISO)	3.50 kJ/m ² @Thickness >=5.00 mm	1.67 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	120 °C @Thickness 0.000 mm, Time 7.20e+7 sec	248 °F @Thickness 0.000 in, Time 20000 hour	IEC 60216; IEC/EN 60893-2 7.1

Electrical Properties	Metric	English	Comments
Insulation Resistance	5.00e+6 ohm	5.00e+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	0.0400 kV/mm	1.02 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	
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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