

## Elektro-Isola Etronit 201M Phenolic, Paper Reinforcement, Dark Brown, 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. Applications: Dies, topplates and back-up plates for drilling. Information provided by Elektro-Isola

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Elektro-Isola-Etronit-201M-Phenolic-Paper-Reinforcement-Dark-Brown-Sheets.php](http://www.lookpolymers.com/polymer_Elektro-Isola-Etronit-201M-Phenolic-Paper-Reinforcement-Dark-Brown-Sheets.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	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 <sup>2</sup> @Thickness >=5.00 mm	1.67 ft-lb/in <sup>2</sup> @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 @Thickness >=3.00 mm	5.00e+6 ohm @Thickness >=0.118 in	24hr/50°C+24h in water at 23°C; IEC 60167; IEC/EN 60893-2 6.3
Dielectric Strength	0.0400 kV/mm @Thickness >=3.00 mm	1.02 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
Comparative Tracking Index	100 V @Thickness 3.00 mm	100 V @Thickness 0.118 in	IEC 60112; IEC/EN 60893-2 6.4

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