

## Elektro-Isola Etronit II Phenolic, Paper Reinforcement, Dark Brown, Sheets

Category : Polymer , Thermoset , Phenolic

### Material Notes:

Description: Mechanical and electrical applications used at normal air humidity. Very good electrical values. Information provided by Elektro-Isola

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	1.47 %	1.47 %	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	110 MPa @Thickness >=1.50 mm	16000 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	160 MPa @Thickness >=1.50 mm	23200 psi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1
Compressive Strength	300 MPa @Thickness >=5.00 mm	43500 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)	3.30 kJ/m <sup>2</sup> @Thickness >=5.00 mm	1.57 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	1.00e+8 ohm	1.00e+8 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 Constant	5.0	5.0	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	@Thickness <=3.00 mm, Frequency 50.0 Hz	@Thickness <=0.118 in, Frequency 50.0 Hz	
Dielectric Strength	1.20 kV/mm	30.5 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	
	10.0 kV/mm	254 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	
Dissipation Factor	0.040	0.040	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	
Comparative Tracking Index	100 V	100 V	IEC 60112; IEC/EN 60893-2 6.4
	@Thickness 3.00 mm	@Thickness 0.118 in	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China