

## Elektro-Isola Etronit MBM Phenolic/melamine, Paper Reinforcement, Grey/also other Colors, Sheets

Category : Polymer , Thermoset , Phenolic

### Material Notes:

Description: The surfaces consist of melamine, which ensures a scratch-resistant, tracking-resistant surface. The surfaces are grey as standard, but other colors can be selected from the color chart. Electrical properties are adequate for insulation in low-voltage constructions. The laminates are self-extinguishing over 8 mm in thickness. Applications: Busbar holders in electrical distribution systems. Partition plates, backplates and mounting plates. Information provided by Elektro-Isola

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Elektro-Isola-Etronit-MBM-Phenolicmelamine-Paper-Reinforcement-Greyalso-other-Colors-Sheets.php](http://www.lookpolymers.com/polymer_Elektro-Isola-Etronit-MBM-Phenolicmelamine-Paper-Reinforcement-Greyalso-other-Colors-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	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	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	10.0 GPa @Thickness >=1.50 mm	1450 ksi @Thickness >=0.0591 in	24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2
Flexural Strength	120 MPa @Thickness >=1.50 mm	17400 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
	120 °C	248 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	@ Thickness 0.000 mm, Time 7.20e+7 sec	@ Thickness 0.000 in, Time 20000 hour	IEC 60216; IEC/EN 60893-2 7.1
Flammability, UL94	V-0 @Thickness 8.00 mm	V-0 @Thickness 0.315 in	IEC/EN 60893-2 7.2; IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+8 ohm @Thickness >=3.00 mm	1.00e+8 ohm @Thickness >=0.118 in	24hr/50°C+24h in water at 23°C; IEC 60167; IEC/EN 60893-2 6.3
Dielectric Constant	6.0 @Thickness <=3.00 mm, Frequency 50.0 Hz	6.0 @Thickness <=0.118 in, Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
Dielectric Strength	0.600 kV/mm @Thickness >=3.00 mm	15.2 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
	5.00 kV/mm @Thickness 3.00 mm	127 kV/in @Thickness 0.118 in	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60245-1; IEC/EN 60893-2 6.1.3.1
Dissipation Factor	0.040 @Frequency 50.0 Hz	0.040 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
Comparative Tracking Index	500 V @Thickness 3.00 mm	500 V @Thickness 0.118 in	IEC 60112; IEC/EN 60893-2 6.4

## Contact Songhan Plastic Technology Co.,Ltd.

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