

Elektro-Isola Etronit 201 MBM Phenolic/melamine, Paper Reinforcement, Grey/also other Colors, Sheets

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: This material is not standardized, but the base material is the same as Etronit 201 M. 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. The laminates are self-extinguishing over 8 mm in thickness. Applications: Used typically as front panels where and individual color is required. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-Etronit-201-MBM-Phenolicmelamine-Paper-Reinforcement-Greyalso-other-Colors-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	1.6 %	1.6 %	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 ² @Thickness >= 5.00 mm	1.57 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
	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	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	500 V @Thickness 3.00 mm	500 V @Thickness 0.118 in	IEC 60112; IEC/EN 60893-2 6.4

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