Elektro-Isola Etronit IIQ S AL Phenolic, Paper Reinforcement, Black with foil, Sheets

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Mechanically a good Etronit type with electrical properties adequate for insulation in low-voltage applications. Material is black throughout. Elegant surface finish combined with good mechanical strength and electrical properties for use in low-voltage applications. Foil on both sides to protect the surface during processing, transport and installation. The foil may subsequently be removed from the finished componentsInformation provided by Elektro-Isola

Order this product through the following link:
http://www.lookpolymers.com/polymer_Elektro-Isola-Etronit-IIQ-S-AL-Phenolic-Paper-Reinforcement-Black-with-foil-Sheets.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in³	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1
Water Absorption	2.67 %	2.67 %	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	140 MPa @Thickness >=1.50 mm	20300 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	320 MPa @Thickness >=5.00 mm	46400 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/m² @Thickness >=5.00 mm	1.67 ft-lb/in² @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

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	5.0 @Thickness <=3.00 mm, Frequency 50.0 Hz	5.0 @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
	4.00 kV/mm @Thickness 3.00 mm	102 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	0.050 @Frequency 50.0 Hz	0.050 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 60250; IEC/EN 60893-2 6.2
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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