

Elektro-Isola Etronit IV C Phenolic, Paper Reinforcement, Yellow, Tubes

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Suitable for electrical and mechanical applications where there is high air humidity. Lowest water absorption of all the Etronit types. Tropical grade. Good electrical properties at high frequencies. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-Etronit-IV-C-Phenolic-Paper-Reinforcement-Yellow-Tubes.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc @Thickness >=0.000 mm	0.0452 lb/in ³ @Thickness >=0.000 in	24hr/23°C/50% RH; ISO 1183-A; IEC/EN 61212-2 7.3
Water Absorption	0.20 %	0.20 %	24hr/50°C+24hr in water at 23°C; ISO 62-1; IEC/EN 61212-2 7.2

Mechanical Properties	Metric	English	Comments
Flexural Strength	120 MPa @Diameter >=100 mm	17400 psi @Diameter >=3.94 in	24hr/23°C/50% RH; ISO 178; IEC/EN 61212-2 5.1
Compressive Strength	130 MPa @Temperature 23.0 °C, Time 86400 sec	18900 psi @Temperature 73.4 °F, Time 24.0 hour	50% RH, Axial; ISO 604; IEC/EN 61212-2 5.2
Adhesive Bond Strength	145 MPa @Diameter <=100 mm	21000 psi @Diameter <=3.94 in	24hr/23°C/50% RH; IEC 60212-2; IEC/EN 61212-2 5.3

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	120 °C @Thickness 3.00 mm, Time 7.20e+7 sec	248 °F @Thickness 0.118 in, Time 20000 hour	IEC 60695-11-10; IEC/EN 61212-2 7.1

Electrical Properties	Metric	English	Comments
Insulation Resistance	2.00e+8 ohm @Diameter 8.00 - 10.0 mm	2.00e+8 ohm @Diameter 0.315 - 0.394 in	24hr/50°C+24h in water at 23°C; IEC; IEC/EN 61212-2 6.2
Dielectric Constant	5.0 @Frequency 50.0 Hz	5.0 @Frequency 50.0 Hz	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
	5.0 @Frequency 1.00e+6	5.0 @Frequency 1.00e+6	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3

Electrical Properties	Hz Metric	Hz English	Comments
Dielectric Strength	6.70 kV/mm	170 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60243-1; IEC/EN 61212-2 6.1.2.1
	@Thickness 3.00 mm	@Thickness 0.118 in	
	1.00 kV/mm	25.4 kV/in	24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60243-1; IEC/EN 61212- 2 6.1.2.1
	@Diameter >=3.00 mm	@Diameter >=0.118 in	
Dissipation Factor	0.030	0.030	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	
	0.030	0.030	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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