

Elektro-Isola Etronit B 66 Phenolic, Paper Reinforcement, Dark Brown, Tubes

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Specially designed for high-voltage insulation with high requirements for insulating capacity along the tube.Applications:

Insulating tubes in high-voltage switchgear and tap changers..Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-Etronit-B-66-Phenolic-Paper-Reinforcement-Dark-Brown-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	0.45 %	0.45 %	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	150 MPa @Diameter <=100 mm	21800 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	1.00e+7 ohm @Diameter 8.00 - 10.0 mm	1.00e+7 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
Dielectric Strength	10.0 kV/mm @Thickness 3.00 mm	254 kV/in @Thickness 0.118 in	96hr/105°C+1hr/oil 90°C; Perpendicular; IEC 60243-1; IEC/EN 61212-2 6.1.2.1

Electrical Properties	Metric	English	Comments
	2.00 kV/mm	50.8 kV/in	96hr/105°C+1hr/0hr/90°C; Parallel; IEC 60243-1; IEC/EN 61212-2 6.1.2.1
	@Diameter >=3.00 mm	@Diameter >=0.118 in	
Dissipation Factor	0.040	0.040	96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	

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