

Elektro-Isola G-Etronax EP 11 Epoxy, Glass Fabric Reinforcement, Green, Tubes

Category : Polymer , Thermoset , Epoxy

Material Notes:

Description: Particularly good electrical and mechanical properties. Extremely high mechanical strength, even at high temperatures.

Retains electrical properties at high air humidity. High resistance to chemicals. Applications: Engineering and insulation material in large rotating electrical machines and insulation cylinders in dry transformers. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-EP-11-Epoxy-Glass-Fabric-Reinforcement-Green-Tubes.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------------------|---------------------------|---|
| Density | 1.80 g/cc | 0.0650 lb/in ³ | 24hr/23°C/50% RH; ISO 1183-A; IEC/EN 61212-2 7.3 |
| | @Thickness >=0.000 mm | @Thickness >=0.000 in | |
| Water Absorption | 0.020 % | 0.020 % | 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 | 350 MPa | 50800 psi | 24hr/23°C/50% RH, 230 Mpa measured at 150°C; ISO 178; IEC/EN 61212-2 5.1 |
| | @Diameter >=100 mm | @Diameter >=3.94 in | |
| Compressive Strength | 250 MPa | 36300 psi | 50% RH, Axial; ISO 604; IEC/EN 61212-2 5.2 |
| | @Temperature 23.0 °C, Time 86400 sec | @Temperature 73.4 °F, Time 24.0 hour | |
| Adhesive Bond Strength | 480 MPa | 69600 psi | 24hr/23°C/50% RH; IEC 60212-2; IEC/EN 61212-2 5.3 |
| | @Diameter <=100 mm | @Diameter <=3.94 in | |

| Thermal Properties | Metric | English | Comments |
|------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|
| Maximum Service Temperature, Inert | 180 °C | 356 °F | IEC 60695-11-10; IEC/EN 61212-2 7.1 |
| | @Thickness 3.00 mm, Time 7.20e+7 sec | @Thickness 0.118 in, Time 20000 hour | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------------|----------------------------|---|
| Insulation Resistance | 1.00e+10 ohm | 1.00e+10 ohm | 24hr/50°C+24h in water at 23°C; IEC; IEC/EN 61212-2 6.2 |
| | @Diameter 8.00 - 10.0 mm | @Diameter 0.315 - 0.394 in | |
| Dielectric Constant | 4.5 | 4.5 | 96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3 |
| | @Frequency 50.0 Hz | @Frequency 50.0 Hz | |
| | 4.5 | 4.5 | |

| Electrical Properties | Metric @Frequency 1.00e+6 Hz | English @Frequency 1.00e+6 Hz | Comments 96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3 |
|-----------------------|------------------------------------|-------------------------------------|---|
| Dielectric Strength | 11.0 kV/mm @Thickness 3.00 mm | 279 kV/in @Thickness 0.118 in | 24hr/23°C/50% RH+1hr/oil 90°C; Perpendicular; IEC 60243-1; IEC/EN 61212-2 6.1.2.1 |
| | 2.40 kV/mm @Diameter >=3.00 mm | 61.0 kV/in @Diameter >=0.118 in | 24hr/23°C/50% RH+1hr/oil 90°C; Parallel; IEC 60243-1; IEC/EN 61212- 2 6.1.2.1 |
| Dissipation Factor | 0.010 @Frequency 50.0 Hz | 0.010 @Frequency 50.0 Hz | 96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3 |
| | 0.010 @Frequency 1000 Hz | 0.010 @Frequency 1000 Hz | 96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3 |

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