

Elektro-Isola G-Etronax EP FR Epoxy, Glass Fabric Reinforcement, Light Yellow, Tubes

Category : Polymer , Thermoset , Epoxy

Material Notes:

Description: Mechanical, electrical and electronic applications. Extremely high mechanical strength at moderate temperatures. Very good stability of electrical properties when exposed to high relative humidity. The material is self-extinguishing. UL-94 V-0 approved – File No. E222199 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-FR-Epoxy-Glass-Fabric-Reinforcement-Light-Yellow-Tubes.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------------------------|--|---|
| Density | 1.85 g/cc @Thickness >=0.000 mm | 0.0668 lb/in ³ @Thickness >=0.000 in | 24hr/23°C/50% RH; ISO 1183-A; IEC/EN 61212-2 7.3 |
| Water Absorption | 0.030 % | 0.030 % | 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 @Diameter >=100 mm | 50800 psi @Diameter >=3.94 in | 24hr/23°C/50% RH; ISO 178; IEC/EN 61212-2 5.1 |
| Compressive Strength | 230 MPa @Temperature 23.0 °C, Time 86400 sec | 33400 psi @Temperature 73.4 °F, Time 24.0 hour | 50% RH, Axial; ISO 604; IEC/EN 61212-2 5.2 |
| Adhesive Bond Strength | 400 MPa @Diameter <=100 mm | 58000 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 | 145 °C @Thickness 3.00 mm, Time 7.20e+7 sec | 293 °F @Thickness 0.118 in, Time 20000 hour | IEC 60695-11-10; IEC/EN 61212-2 7.1 |
| Flammability, UL94 | V-0 @Thickness 3.00 mm | V-0 @Thickness 0.118 in | IEC 60695-11-10; IEC/EN 61212-2 7.4 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------------------------|-----------------------------------|---|
| Insulation Resistance | 1.00e+10 ohm @Diameter 8.00 - 10.0 | 1.00e+10 ohm @Diameter 0.315 - | 24hr/50°C+24h in water at 23°C; IEC; IEC/EN 61212-2 6.2 |

| Electrical Properties | mm Metric | 0.394 in English | Comments |
|-----------------------|-----------------------|-----------------------|---|
| Dielectric Constant | 4.5 | 4.5 | 96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| | 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 | |
| Dielectric Strength | 10.0 kV/mm | 254 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 | |
| | 2.00 kV/mm | 50.8 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 | 0.010 | 0.010 | 96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3 |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| | 0.010 | 0.010 | 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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