

## Elektro-Isola G-Etronax EP 10 Epoxy, Glass Fabric Reinforcement, Light Yellow, Tubes

Category : Polymer , Thermoset , Epoxy

### Material Notes:

Description: Particularly good electrical and mechanical properties. Extremely high mechanical strength. 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-10-Epoxy-Glass-Fabric-Reinforcement-Light-Yellow-Tubes.php](http://www.lookpolymers.com/polymer_Elektro-Isola-G-Etronax-EP-10-Epoxy-Glass-Fabric-Reinforcement-Light-Yellow-Tubes.php)

| Physical Properties | Metric                             | English                                            | Comments                                                      |
|---------------------|------------------------------------|----------------------------------------------------|---------------------------------------------------------------|
| Density             | 1.75 g/cc<br>@Thickness >=0.000 mm | 0.0632 lb/in <sup>3</sup><br>@Thickness >=0.000 in | 24hr/23°C/50% RH; ISO 1183-A; IEC/EN 61212-2 7.3              |
| 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<br>@Diameter >=100 mm                   | 50800 psi<br>@Diameter >=3.94 in                  | 24hr/23°C/50% RH; ISO 178; IEC/EN 61212-2 5.1     |
| Compressive Strength   | 200 MPa<br>@Temperature 23.0 °C, Time 86400 sec | 29000 psi<br>@Temperature 73.4 °F, Time 24.0 hour | 50% RH, Axial; ISO 604; IEC/EN 61212-2 5.2        |
| Adhesive Bond Strength | 400 MPa<br>@Diameter <=100 mm                   | 58000 psi<br>@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 | 140 °C<br>@Thickness 3.00 mm, Time 7.20e+7 sec | 284 °F<br>@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+10 ohm<br>@Diameter 8.00 - 10.0 mm | 1.00e+10 ohm<br>@Diameter 0.315 - 0.394 in | 24hr/50°C+24h in water at 23°C; IEC; IEC/EN 61212-2 6.2 |
| Dielectric Constant   | 4.5<br>@Frequency 50.0 Hz                | 4.5<br>@Frequency 50.0 Hz                  | 96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3  |

| Electrical Properties | <sup>4</sup> / <sub>5</sub> Metric | <sup>4</sup> / <sub>5</sub> English | Comments                                                                          |
|-----------------------|------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|
|                       | @Frequency 1.00e+6 Hz              | @Frequency 1.00e+6 Hz               | 96hr/105°C+1hr/23°C/20%RH; IEC 250; IEC/EN 61212-2 6.3                            |
| Dielectric Strength   | 11.0 kV/mm                         | 279 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                 |                                                                                   |
|                       | 2.40 kV/mm                         | 61.0 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 50.0 Hz                 | @Frequency 50.0 Hz                  |                                                                                   |
|                       | 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                  |                                                                                   |

## Contact Songhan Plastic Technology Co.,Ltd.

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