

## Elektro-Isola Etronax MMF Phenolic, Cotton Fabric Reinforcement, Brown, Tubes

Category : Polymer , Thermoset , Phenolic

### Material Notes:

Description: Mechanical applications. Reinforced with finer fabric than Etronax MF. Can be used, in particular, for mechanical applications where fine tolerances and smoother surface finish are required. Applications: Ball-bearing cages for spindle bearings and guide rings for hydraulic cylinders. Information provided by Elektro-Isola

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Elektro-Isola-Etronax-MMF-Phenolic-Cotton-Fabric-Reinforcement-Brown-Tubes.php](http://www.lookpolymers.com/polymer_Elektro-Isola-Etronax-MMF-Phenolic-Cotton-Fabric-Reinforcement-Brown-Tubes.php)

| Physical Properties | Metric                             | English                                            | Comments                                                      |
|---------------------|------------------------------------|----------------------------------------------------|---------------------------------------------------------------|
| Density             | 1.30 g/cc<br>@Thickness >=0.000 mm | 0.0470 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    | 0.20 %                             | 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      | 100 MPa<br>@Diameter >=100 mm                   | 14500 psi<br>@Diameter >=3.94 in                  | 24hr/23°C/50% RH; ISO 178; IEC/EN 61212-2 5.1     |
| Compressive Strength   | 170 MPa<br>@Temperature 23.0 °C, Time 86400 sec | 24700 psi<br>@Temperature 73.4 °F, Time 24.0 hour | 50% RH, Axial; ISO 604; IEC/EN 61212-2 5.2        |
| Adhesive Bond Strength | 130 MPa<br>@Diameter <=100 mm                   | 18900 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 | 100 °C<br>@Thickness 3.00 mm, Time 7.20e+7 sec | 212 °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 | 2.00e+8 ohm<br>@Diameter 8.00 - 10.0 mm | 2.00e+8 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 Strength   | 3.00 kV/mm<br>@Thickness 3.00 mm        | 76.2 kV/in<br>@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 |

| Electrical Properties | Metric              | English              | Comments                                                                |
|-----------------------|---------------------|----------------------|-------------------------------------------------------------------------|
|                       | 0.800 kV/mm         | 20.3 kV/in           | 24hr./23°C/50% RH+1hr/oil 90°C;<br>Parallel, IEC 60243-1, IEC/EN 61212- |
|                       | @Diameter >=3.00 mm | @Diameter >=0.118 in | 2 6.1.2.1                                                               |

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