

Elektro-Isola Etronax MF G Phenolic, Cotton Fabric Reinforcement, Black, Sheets

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Exclusively for mechanical applications. Impact-resistant. Resistant to mechanical wear and noise-reducing. The graphite content causes low friction. Well suited for parts where there are high mechanical load and wear requirements. Good wear resistance in aggressive and dust-filled environments. Can be lubricated with water, oil or grease. Alternative to materials containing asbestos. Information provided by Elektro-Isola

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elektro-Isola-Etronax-MF-G-Phenolic-Cotton-Fabric-Reinforcement-Black-Sheets.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|--|
| Density | 1.40 g/cc | 0.0506 lb/in ³ | 24hr/23°C/50% RH; ISO 1183-A; IEC/EN 60893-2 8.1 |
| Water Absorption | 1.6 % | 1.6 % | 24hr/50°C+24hr in water at 23°C, Test Specimen 50x50x3[mm]; ISO 62-1; IEC/EN 60893-2 8.2 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|---|--|
| Tensile Strength | 80.0 MPa @Thickness >=1.50 mm | 11600 psi @Thickness >=0.0591 in | 24hr/23°C/50% RH; ISO 527; IEC/EN 60893-2 5.6 |
| Modulus of Elasticity | 7.00 GPa @Thickness >=1.50 mm | 1020 ksi @Thickness >=0.0591 in | 24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.2 |
| Flexural Strength | 135 MPa @Thickness >=1.50 mm | 19600 psi @Thickness >=0.0591 in | 24hr/23°C/50% RH; ISO 178; IEC/EN 60893-2 5.1 |
| Compressive Strength | 330 MPa @Thickness >=5.00 mm | 47900 psi @Thickness >=0.197 in | 24hr/23°C/50% RH; ISO 604; IEC/EN 60893-2 5.3 |
| Shear Strength | 50.0 MPa @Thickness >=5.00 mm | 7250 psi @Thickness >=0.197 in | 24hr/23°C/50% RH; IEC/EN 60893-2 5.5 |
| Izod Impact, Notched (ISO) | 10.0 kJ/m ² @Thickness >=5.00 mm | 4.76 ft-lb/in ² @Thickness >=0.197 in | 24hr/23°C/50% RH; ISO 180/2A; IEC/EN 60893-2 5.4.3 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| | 100 °C | 212 °F | |

| Maximum Service Temperature, Inert Thermal Properties | @Thickness 0.000 mm, Metric Time 7.20e+7 sec | @Thickness 0.000 in, English Time 20000 hour | IEC 60216: IEC/EN 60893-2 7.1 Comments |
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