

Saint-Gobain Micaver[®] Glass-Mica Electrical Insulator, Transfer Moldings

Category : Ceramic , Glass , Glass Ceramic , Machinable Ceramic

Material Notes:

Glass-mica compound that occupies a place between plastics and ceramics in terms of usage temperature. It can be molded and machined like plastics and has the mechanical properties (strength, hardness) typical of ceramics. It is made by mixing the components in powder form and heated under pressure. The glass particles melt and cover the mica flakes to form a hard, compact mass. It does not burn, is not hygroscopic, has high resistivity, is suitable for vacuum use, and has generally good chemical resistance - it is attacked by acetic, hydrochloric and nitric acid but resists sulfuric and phosphoric acids, ammonia, caustic soda, organic solvents, and saline solutions. Applications include electric traction (railways, subways), busbar mountings, terminals, power cable mountings, switchbox mountings, and insulation of heating elements. Information provided by Saint-Gobain Quartz PLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Micaver-Glass-Mica-Electrical-Insulator-Transfer-Moldings.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 4.30 g/cc | 0.155 lb/in ³ | |
| Water Absorption | 0.00 % | 0.00 % | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------|-----------|------------------|
| Hardness, Brinell | 80 | 80 | |
| Tensile Strength, Ultimate | 20.0 MPa | 2900 psi | |
| Elongation at Break | 0.50 % | 0.50 % | |
| Flexural Strength | 80.0 MPa | 11600 psi | Bending Strength |
| Compressive Strength | 260 MPa | 37700 psi | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--|--|----------|
| CTE, linear | 11.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$ | 6.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$ | |
| Thermal Conductivity | 0.700 W/m-K @Temperature 250 $\text{Å}^\circ\text{C}$ | 4.86 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$ @Temperature 482 $\text{Å}^\circ\text{F}$ | |
| Maximum Service Temperature, Air | 350 $\text{Å}^\circ\text{C}$ | 662 $\text{Å}^\circ\text{F}$ | |
| Softening Point | 420 $\text{Å}^\circ\text{C}$ | 788 $\text{Å}^\circ\text{F}$ | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties | Metric <small>13 ohm-cm</small> | English <small>13 ohm-cm</small> | Comments |
|-----------------------|---------------------------------|----------------------------------|----------|
| Surface Resistance | 3.00e+14 ohm | 3.00e+14 ohm | |
| Dielectric Constant | 11 | 11 | |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Dielectric Strength | 11.0 kV/mm | 279 kV/in | |
| Dissipation Factor | 0.017 - 0.040 | 0.017 - 0.040 | |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Arc Resistance | 320 sec | 320 sec | |

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