Saint-Gobain MicaverÂ® Glass-Mica Electrical Insulator, Compression 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-Compression-Moldings.php

Physical Properties	Metric	English	Comments
Density	3.20 g/cc	0.116 lb/inÂ³	
Water Absorption	0.10 - 0.25 %	0.10 - 0.25 %	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	30	30	
Tensile Strength, Ultimate	60.0 MPa	8700 psi	
Elongation at Break	0.50 %	0.50 %	
Flexural Strength	100 MPa	14500 psi	Bending Strength
Compressive Strength	270 MPa	39200 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 Âµm/m-Â°C @Temperature 20.0 Â°C	6.11 Âµin/in-Â°F @Temperature 68.0 Â°F	
Thermal Conductivity	0.700 W/m-K @Temperature 250 Â°C	4.86 BTU-in/hr-ftÂ²-Â°F @Temperature 482 Â°F	
Maximum Service Temperature, Air	400 Â°C	752 Â°F	
Softening Point	500 Â°C	932 Â°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00e+12 ohm-cm	5.00e+12 ohm-cm	
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	
Dielectric Constant	9.0 @Frequency 1000 Hz	9.0 @Frequency 1000 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	
Dissipation Factor	0.017 - 0.040 @Frequency 1000 Hz	0.017 - 0.040 @Frequency 1000 Hz	
Arc Resistance	320 sec	320 sec	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China