

Mykroy/Mycalex MM 501 Molding Grade Glass-bonded Mica Composite

Category : Ceramic , Glass , Glass Ceramic

Material Notes:

Natural mica filler. Does not burn. ROHS Compliant. This ceramoplastic material is a versatile and efficient insulating material designed to meet the exacting demands of technical markets, worldwide. Glass-Bonded Mica is the only inorganic material to bridge the performance materials gap between organic plastics and ceramics. This unique high performance technical ceramic is a union of finely powdered electrical quality glass and precisely defined and classified mica. The union of mica and glass takes place under simultaneous pressure and heat, transforming the materials into a new composition that inherits all the insulating advantages of both constituents. These materials are easily machined, mold like plastic, and have a wide range of operating temperatures. They find applications in the aircraft, laser, communications, aerospace, cryogenic, electronic, radiation, semiconductor, computer, automotive, and power distribution industries. Typical data below provided by Mykroy/Mycalex Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MykroyMycalex-MM-501-Molding-Grade-Glass-bonded-Mica-Composite.php

Physical Properties	Metric	English	Comments
Density	2.60 g/cc	0.0939 lb/in ³	
Moisture Absorption at Equilibrium	0.00 %	0.00 %	Nil

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell A	62	62	
Flexural Strength	95.1 MPa	13800 psi	
Flexural Modulus	35.2 GPa	5110 ksi	
Compressive Strength	310 MPa	45000 psi	
Izod Impact, Notched	8.01 J/cm	15.0 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	10.60 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.889 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	12.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.91 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 250 °C	@Temperature 482 °F	
	13.5 $\mu\text{m}/\text{m}\cdot\text{°C}$	7.50 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 450 °C	@Temperature 842 °F	
Thermal Conductivity	1.58 W/m-K	11.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	500 °C	932 °F	Continuous

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.1e+15 ohm-cm	1.1e+15 ohm-cm	
Surface Resistivity per Square	5.8e+12 ohm	5.8e+12 ohm	
Dielectric Constant	6.98	6.98	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	18.9 kV/mm	480 kV/in	
Dissipation Factor	0.010	0.010	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Loss Index	0.070	0.070	1 MHz

Descriptive Properties	Value	Comments
Color	Brown	

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