

Mykroy/Mycalex MM 561 Molding Grade Glass-bonded Mica Composite

Category : Ceramic , Glass , Glass Ceramic

Material Notes:

Synthetic mica filler. Does not burn. Good radiation resistance (3×10^{10} Rads-Cobalt). 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 powered 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-561-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	63	63	
Tensile Strength, Ultimate	51.7 MPa	7500 psi	
Modulus of Elasticity	77.9 GPa	11300 ksi	
Flexural Strength	110 MPa	16000 psi	
Flexural Modulus	44.1 GPa	6400 ksi	
Compressive Strength	331 MPa	48000 psi	
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	10.20 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	5.667 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 25.0 $^\circ\text{C}$	@Temperature 77.0 $^\circ\text{F}$	
	12.8 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	7.11 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 250 $^\circ\text{C}$	@Temperature 482 $^\circ\text{F}$	
	13.5 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	7.50 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	

Thermal Properties	@Temperature 450 °C Metric	@Temperature 842 °F English	Comments
Specific Heat Capacity	1.674 J/g-°C	0.4000 BTU/lb-°F	
Thermal Conductivity	1.46 W/m-K	10.1 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	560 °C	1040 °F	Continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.60e+14 ohm-cm	1.60e+14 ohm-cm	
Surface Resistivity per Square	4.00e+14 ohm	4.00e+14 ohm	
Dielectric Constant	6.87	6.87	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	16.7 kV/mm	425 kV/in	
Dissipation Factor	0.0042	0.0042	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Loss Index	0.028	0.028	1 MHz
Arc Resistance	205 sec	205 sec	

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