Mykroy/Mycalex MM 601 Molding Grade Glass-bonded Mica Composite

Category : Ceramic , Glass , Glass Ceramic

Material Notes:

Synthetic/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 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 Crystex Composites.

Order this product through the following link:
http://www.lookpolymers.com/polymer_MykroyMycalex-MM-601-Molding-Grade-Glass-bonded-Mica-Composite.php

Physical Properties	Metric	English	Comments
Density	2.57 g/cc	0.0928 lb/in³	
Moisture Absorption at Equilibrium	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell A	46	46	
Flexural Strength	72.4 MPa	10500 psi	
Flexural Modulus	27.0 GPa	3920 ksi	
Compressive Strength	290 MPa	42000 psi	
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	9.520 µm/m-°C @Temperature 25.0 °C	5.289 µin/in-°F @Temperature 77.0 °F	
	10.02 µm/m-°C @Temperature 250 °C	5.567 µin/in-°F @Temperature 482 °F	
	10.4 µm/m-°C @Temperature 450 °C	5.78 µin/in-°F @Temperature 842 °F	
	12.6 µm/m-°C @Temperature 600 °C	7.00 µin/in-°F @Temperature 1110 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	W/m-K	U-in/hr-ft²-°F	
Maximum Service Temperature, Air	600 °C	1110 °F	Continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.7e+15 ohm-cm	6.7e+15 ohm-cm	
Surface Resistivity per Square	1.4e+13 ohm	1.4e+13 ohm	
Dielectric Constant	6.33 @Frequency 1e+6 Hz	6.33 @Frequency 1e+6 Hz	
Dielectric Strength	22.8 kV/mm	580 kV/in	
Dissipation Factor	0.0022 @Frequency 1e+6 Hz	0.0022 @Frequency 1e+6 Hz	
Dielectric Loss Index	0.014	0.014	1 MHz

Descriptive Properties	Value	Comments
Color	Off White/Brown	

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