

Quantum Composites Lytex® 9063 63% Glass Fiber Epoxy SMC

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Composite SMC , Epoxy , Filled/Reinforced Thermoset

Material Notes:

Lytex 9063 is a high performance, glass fiber reinforced epoxy sheet molding compound designed for military and aerospace structural applications requiring excellent mechanical properties, retention of properties at elevated temperatures, good chemical resistance and excellent electrical properties. It meets the requirements of MIL-M-46069 and MIL-M-46892. Form and Color = Sheet, Black. Glass Length (Std.) = 0.5" Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-Lytex-9063-63-Glass-Fiber-Epoxy-SMC.php

Physical Properties	Metric	English	Comments
Density	1.82 g/cc	0.0658 lb/in ³	ASTM D792
Water Absorption	0.080 %	0.080 %	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	241 MPa	35000 psi	ASTM D638
Flexural Yield Strength	455 MPa	66000 psi	ASTM D790
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
Izod Impact, Notched	18.7 J/cm	35.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	>= 300 °C	>= 572 °F	Deflection Temp; Load not reported; ASTM D648
Shrinkage	0.0010 %	0.0010 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.00e+14 ohm-cm	3.00e+14 ohm-cm	ASTM D257
Dielectric Constant	4.3 @Frequency 100 Hz	4.3 @Frequency 100 Hz	ASTM D150
Dielectric Strength	16.0 kV/mm	406 kV/in	ASTM D149
Dissipation Factor	0.0070 @Frequency 100 Hz	0.0070 @Frequency 100 Hz	ASTM D150

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	121 - 163 °C Metric	250 - 325 °F English	Mold temperature Comments
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