

Quantum Composites LYTEX® 4129 63% Glass Fiber Reinforced Epoxy SMC

Category : Polymer , Thermoset , Composite SMC , Epoxy , Epoxy/Glass SMC

Material Notes:

LYTEX 4129 is an epoxy high performance, glass fiber reinforced ESC 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. Form = Sheet Color = Black Glass Fiber Content = 63% nominal Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-LYTEX-4129-63-Glass-Fiber-Reinforced-Epoxy-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.82 g/cc	1.82 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955
Spiral Flow	50.8 cm @Pressure 27.6 MPa, Temperature 163 °C	20.0 in @Pressure 4000 psi, Temperature 325 °F	Mesa

Mechanical Properties	Metric	English	Comments
Tensile Strength	262 MPa	38000 psi	ASTM D638
Flexural Strength	440 MPa	63800 psi	ASTM D790
Flexural Modulus	16.5 GPa	2390 ksi	ASTM D790
Izod Impact, Notched	18.69 J/cm	35.01 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	300 °C	572 °F	Deflection Temperature, Load not specified; ASTM D648

Electrical Properties	Metric	English	Comments
Volume 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	19.7 kV/mm	500 kV/in	ASTM D149
Dissipation Factor	0.0080 @Frequency 100 Hz	0.0080 @Frequency 100 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Processing Temperature	132 - 166 °C	270 - 330 °F	Mold Temperature
Cure Time	5.00 - 10.0 min	0.0833 - 0.167 hour	
Shelf Life	6.00 Month @Temperature -17.8 °C	6.00 Month @Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fiber Length (in)	0.5	Glass, nominal

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