

Quantum Composites LYTEX® 4084 63% Glass Fiber Reinforced Epoxy SMC

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

Material Notes:

LYTEX 4084 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-4084-63-Glass-Fiber-Reinforced-Epoxy-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 g/cc	1.85 g/cc	ASTM D792
Water Absorption	0.080 %	0.080 %	ASTM D570
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	ASTM D955
Spiral Flow	30.5 cm @Temperature 163 °C	12.0 in @Temperature 325 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	268 MPa	38900 psi	ASTM D638
Flexural Strength	475 MPa	68900 psi	ASTM D790
Flexural Modulus	193 GPa	28000 ksi	ASTM D790
Izod Impact, Notched	23.5 J/cm	44.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	175 °C	347 °F	
	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	0.0080	ASTM D150

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	121 - 166 °C	250 - 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)	1	Glass

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China