

Quantum Composites LYTEX® 4197 55% Carbon Fiber Reinforced Epoxy SMC

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

Material Notes:

LYTEX 4197 is an epoxy high performance, 3K tow carbon fiber (PAN) reinforced engineered structural composite (ESC) molding compound designed for military and aerospace structural applications requiring excellent mechanical properties, retention of properties at elevated temperatures, good chemical resistance and low density. Form = Sheet Color = Black Glass Fiber Content = 55% Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-LYTEX-4197-55-Carbon-Fiber-Reinforced-Epoxy-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Linear Mold Shrinkage	0.00 cm/cm	0.00 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	275 MPa	39900 psi	ASTM D638
Tensile Modulus	62.0 GPa	8990 ksi	ASTM D638
Flexural Strength	689 MPa	99900 psi	ASTM D790
Flexural Modulus	46.5 GPa	6740 ksi	ASTM D790
Izod Impact, Notched	15.0 J/cm	28.1 ft-lb/in	ASTM D256

Processing Properties	Metric	English	Comments
Processing Temperature	129 - 166 °C	265 - 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)	2	Carbon

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