

Quantum Composites LYTEX® 4182 50-55% Carbon Fiber Reinforced Epoxy SMC

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

Material Notes:

LYTEX 4182 is an epoxy ESC molding compound designed for structural applications requiring excellent mechanical properties, retention of properties at elevated temperatures, good chemical resistance and low density. It utilizes a 12K Tow carbon fiber reinforcement. Form = Sheet Color = Black Glass Fiber Content = 50 to 55% Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-LYTEX-4182-50-55-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	138 MPa	20000 psi	ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	27.6 GPa	4000 ksi	ASTM D790
Izod Impact, Notched	8.00 J/cm	15.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	5.50 µm/m-°C	3.06 µin/in-°F	TMA
Thermal Conductivity	0.450 W/m-K	3.12 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	175 °C	347 °F	
	300 °C	572 °F	Deflection Temperature, Load not specified; ASTM D648

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	6.00 Month	
	@Temperature -12.2 °C	@Temperature 10.0 °F	

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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