

## Quantum Composites LYTEX® 4181 55% Carbon Fiber Reinforced Epoxy SMC

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

### Material Notes:

LYTEX 4181 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 = SheetColor = BlackGlass Fiber Content = 55%Information provided by Quantum Composites.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Quantum-Composites-LYTEX-4181-55-Carbon-Fiber-Reinforced-Epoxy-SMC.php](http://www.lookpolymers.com/polymer_Quantum-Composites-LYTEX-4181-55-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	206 MPa	29900 psi	ASTM D638
Flexural Strength	413 MPa	59900 psi	ASTM D790
Flexural Modulus	31.0 GPa	4500 ksi	ASTM D790
Izod Impact, Notched	8.00 J/cm	15.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.450 W/m-K	3.12 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	>= 260 °C	>= 500 °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 @Temperature -12.2 °C	6.00 Month @Temperature 10.0 °F	

Descriptive Properties	Value	Comments
Fiber Length (in)	1	Carbon

Contact Songhan Plastic Technology Co.,Ltd.

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**