

Goodfellow Carbon/Epoxy Composite Rod

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

Material Notes:

Carbon Fiber - Epoxy Resin MatrixInformation provided by Goodfellow.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Goodfellow-CarbonEpoxy-Composite-Rod.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Transverse
	1100 - 1900 MPa	160000 - 276000 psi	Longitudinal
Elongation at Break	0.50 %	0.50 %	Transverse - Tensile
	0.80 %	0.80 %	Longitudinal Compressive Strain
	1.1 %	1.1 %	Longitudinal - Tensile
	2.5 %	2.5 %	Transverse Compressive Strain
Modulus of Elasticity	10.0 GPa	1450 ksi	Transverse
Tensile Modulus	120 - 140 GPa	17400 - 20300 ksi	Longitudinal
Flexural Strength	1200 MPa	174000 psi	Longitudinal
Flexural Modulus	125 GPa	18100 ksi	Longitudinal
Compressive Strength	50.0 - 250 MPa	7250 - 36300 psi	Transverse
	800 - 1300 MPa	116000 - 189000 psi	Longitudinal

Thermal Properties	Metric	English	Comments
CTE, linear	-0.700 - -0.300 µm/m-°C	-0.389 - -0.167 µin/in-°F	Longitudinal
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	28.0 µm/m-°C	15.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Descriptive Properties	Value	Comments
Volume Fraction Fibers, %	55-60	

Descriptive Properties	Value	Comments
------------------------	-------	----------

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