



COMPOSITE ENVISIONS

FIBER PROPERTY COMPARISON - SIMPLIFIED				
	Aramids (Kevlar, Innegra, Twaron, Lumat)	Carbons	Glass	Polyester
<i>Cost</i>	Fair	Poor	Excellent	Excellent
<i>Strength to Weight Ratio</i>	Excellent	Excellent	Poor	Good
<i>Tensile Strength</i>	Excellent	Excellent	Excellent	Good
<i>Compressive Strength</i>	Poor	Excellent	Good	Fair
<i>Stiffness</i>	Good	Excellent	Fair	Fair
<i>Fatigue Resistance</i>	Excellent	Good	Very Good	Good
<i>Abrasion Resistance</i>	Excellent	Fair	Fair	Fair
<i>Machining</i>	Poor	Excellent	Excellent	Excellent
<i>Thermal/Electrical Conductivity</i>	Poor	Excellent	Poor	Poor
<i>Melt Resistance*</i>	Fair	Excellent	Excellent	Poor
<i>Moisture Resistance</i>	Fair	Good	Good	Excellent
<i>Adhesion to Resin</i>	Fair	Excellent	Excellent	Good
<i>Chemical Resistance</i>	Fair	Excellent	Excellent	Good

*The fiber's resistance to melting/burning when exposed to high heat. Excellent melts at higher temperatures, Poor melts at lower temperatures.

**This information is to be used as a general quick estimation tool between different material types. This information is not guaranteed to be accurate.