

Fibre Type Comparison

<i>Property</i>	Carbon	Glass
•High Tensile Strength	A	B
•High Tensile Modulus	A	C
•High Compressive Strength	A	B
•High Compressive Modulus	A	C
•High Flexural Strength	A	B
•High Flexural Modulus	A	C
•High Impact Strength	C	B
•High Interlaminar Shear Strength	A	A
•High In-plane Shear Strength	A	A
•Low Density	B	C
•High Fatigue Resistance	A	C
•High Fire Resistance	C	A
•High Thermal Insulation	C	B
•High Electrical Insulation	C	A
•Low Thermal Expansion	A	A
•Low Cost	C	A

(Key: C=Poor, B=Good, A=Excellent)

Carbon

Very high strength in both tensile and compression, high stiffness and high resistance to corrosion, creep and fatigue. But poor impact strength.

Glass

Good compressive strength and stiffness, good tensile strength and excellent electrical properties at relatively low cost.