



Fiber Reinforced Composite Angle

4 inch by 0.5 inch

Available in 18" standard cut lengths.
Available in custom cut lengths up to 20 linear feet.

TYPICAL PROPERTIES

Property	Average Value	Unit	ASTM Test
PHYSICAL			
Barcol Hardness	45		D2583
Water Absorption	0.6	% max	D570
Density	0.060-0.070	lbs/in ³	D792
Specific Gravity	1.66-1.93	g/cc	D792
Coefficient of Thermal Expansion (LW)	4.4	10 ⁻⁶ in/in/°F	D696
Thermal Conductivity (PF)	4	BTU-in/ft ² /hr/°F	C177
MECHANICAL			
Tensile Strength (LW)	31,000	psi	D638
Tensile Strength (CW)	16,500	psi	D638
Tensile Modulus (LW)	3.5	10 ⁶ psi	D638
Tensile Modulus (CW)	1.0	10 ⁶ psi	D638
Compressive Strength (LW)	38,800	psi	D695
Compressive Strength (CW)	25,500	psi	D695
Compressive Modulus (LW)	3.0	10 ⁶ psi	D695
Compressive Modulus (CW)	2.2	10 ⁶ psi	D695
Flexural Strength (LW)	43,500	psi	D790
Flexural Strength (CW)	24,000	psi	D790
Flexural Modulus (LW)	1.9	10 ⁶ psi	D790
Flexural Modulus (CW)	1.6	10 ⁶ psi	D790
Interlaminar Shear (LW)	3,400	psi	D2344
Maximum Bearing Strength (LW)	33,000	psi	D953
Maximum Bearing Strength (CW)	33,000	psi	D953
Poisson's Ratio (LW)	0.35	in/in	D3039
Poisson's Ratio (CW)	0.12	in/in	D3039

LW = Lengthwise

CW = Crosswise

PF = Perpendicular to laminate face

The above data was derived from ASTM coupon and full section testing. The results are based on random sampling and testing of production lots. Composite materials are not homogeneous; and therefore, the location of the coupon extraction can cause variances in the coupon test results. The table represents an average value of random samples from production lots. This information is for use by technically skilled persons at their own discretion and risk. The properties do not constitute any warranty or guarantee. These values are for material selection purposes only. The customer must determine suitability of any information or material for any contemplated use.

