



GRAFIL 34-600

Grafil 34-600 carbon fiber is a continuous, high strength, PAN based fiber. It is available in 48K filament count tows and can be supplied in either round tow or flat tow formats. The flat tow (designated by 'WD') is the ideal fiber to use in applications where spreading is required, e.g., tape production. The round tow is used in applications where spreading is not necessarily required, e.g., braiding and weaving.

Typical Fiber Properties

Tow Tensile	Strength	650 4500	ksi MPa	SRM 16
	Modulus	34 234	msi GPa	
Typical Density		0.065 1.80	lb.in ³ g/cm ³	SRM 15
Typical Yield	48K	155 3200	yds/lb mg/m	SRM 13

Typical Mechanical Properties

Tensile Properties	0°	Strength	308	ksi	ASTM D3039 / 0°10ply
		Modulus	19.89	msi	ASTM D3039 / 0°10ply
	90°	Strength	10.00	ksi	ASTM D3039 / 0°16ply
		Modulus	1.35	msi	ASTM D3039 / 0°16ply
Compressive Properties	0°	Strength	163	ksi	ASTM D3410 / 0°10ply
		Modulus	18.29	msi	ASTM D3410 / 0°10ply
	90°	Strength	28.5	ksi	ASTM D3410 / 0°20ply
		Modulus	1.49	msi	ASTM D3410 / 0°20ply
Flexural Properties	0°	Strength	272	ksi	ASTM D790 / 0°10ply, L/D=32, Vf=61%
		Modulus	18.30	msi	ASTM D790 / 0°10ply, L/D=32, Vf=61%
	90°	Strength	16.93	ksi	ASTM D790 / 0°10ply, L/D=16, Vf=61%
		Modulus	1.25	msi	ASTM D790 / 0°10ply, L/D=16, Vf=61%
ILSS		Strength	13.15	ksi	ASTM D2344 / 0°10ply, L/D=4, Vf=59%

- 250F Epoxy Prepregs
- Resin: Newport 301 resin system
- Tensile and compressive properties are normalized to 60% fiber volume

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