



# T-300 PAN-Based Fiber

Thermal T300 is a standard modulus fiber supplied with 1% UC.309 epoxy-compatible sizing.

## Typical Properties\*\* of Thornel T-300 PAN-Based Fiber

Typical Values	U.S. Customary Units		SI Units	
Property	Units		Units	
Tensile Strength	545	ksi	3.75	GPa
Tensile Modulus	33.5	Msi	231	GPa
Density	0.064	lbs/in <sup>3</sup>	1.76	g/cc
Elongation at Break	1.6	%		
Filament Diameter	7.0	micron		
Carbon Assay	92	%		
Electrical Resistivity	18.0	micro-ohm-m		
Thermal Conductivity			5	W/mK

## Tow Count (1000s of filaments per strand)

Property	Units	1K*	3K*	6K*	12K*
Yield	yd/lb	7,500	2,510	1,255	627
	m/g	15.05	5.04	2.52	1.26
Linear Density	g/m	0.066	0.198	0.398	0.792
Fiber Area in Yam Cross Section	in <sup>2</sup> x10 <sup>3</sup>	5.3	17.5	35.0	70.0

\*K refers to 1,000s of filaments in a strand

\*\*Typical properties, actual properties of individual lots will vary within specification limits.

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