

NEW FAMILY OF PAN BASED CARBON FIBERS

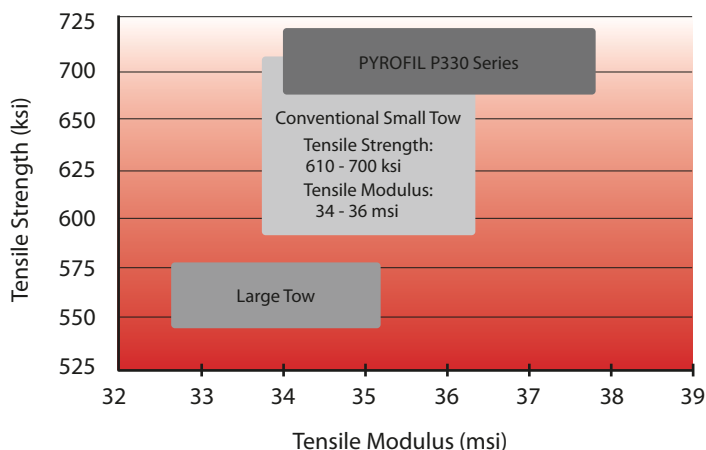
PYROFIL P330:

- The P330 series offers a high tow filament count but the small tow processability and physical properties
- The P330 series will fulfill the promise of increased productivity using large tow carbon fiber
- Target markets
 - Large scale composites parts (e.g. wind blades, marine and infrastructure)
 - Industrial applications including automotive components and pressure vessels.

CURRENT FIBERS IN DETAIL

PYROFIL P330:

Position of P330 in the PAN Fiber Market

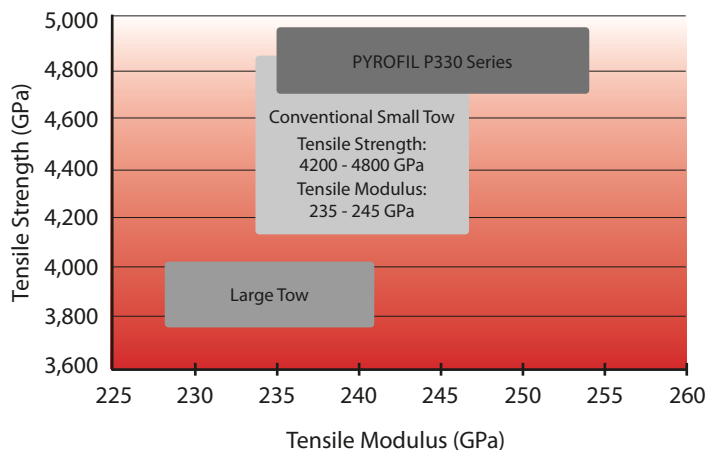


Typical Fiber Properties

Fiber Properties	TRH 50 60k	TR 50S 60k
Tensile Strength (ksi)	700	680
Tensile Modulus (msi)	36	34
Density (lb/in ³)	0.0657	0.0657
MUL (yds/lb)	155 ¹	155 ¹
Filament Count (k)	60	60
Filament Diameter (μm)	6	6

¹ Property not optimized and may change

Position of P330 in the PAN Fiber Market



Typical Fiber Properties

Fiber Properties	TRH 50 60k	TR 50S 60k
Tensile Strength (GPa)	4.80	4.70
Tensile Modulus (GPa)	250	235
Density (g/cm ³)	1.82	1.82
MUL (mg/m)	3200 ¹	3200 ¹
Filament Count (k)	60	60
Filament Diameter (μm)	6	6

¹ Property not optimized and may change