



CARBON FIBER



TAIRYFIL



Process - Good spreadability without fuzzy

Customization - Cooperation and innovation

Competitive - Production with stable quality and supplies

Integration - From crude oil to carbon fiber

Certification

ISO 9001 、 AS9100C 、
ISO 14001 、 OHSAS18001



Property Carbon fiber is a high temperature resistant fiber with high strength and modulus. It is a fibrous material composed of carbon atoms and has a diameter of only about one tenth of the diameter of the hair (about 5-10 μm). It is a high performance material for a diverse range of properties.

- A.Stronger than steel, lighter than aluminum
- B.Corrosion and rust resistant
- C.Dimensional stability, low thermal expansion and good heat resistance
- D.Excellent vibration attenuation
- E.High X-ray penetration, good electrical and heat conductivity.
- F.Low friction coefficient and excellent wear resistance
- G.Excellent fatigue and creep resistance

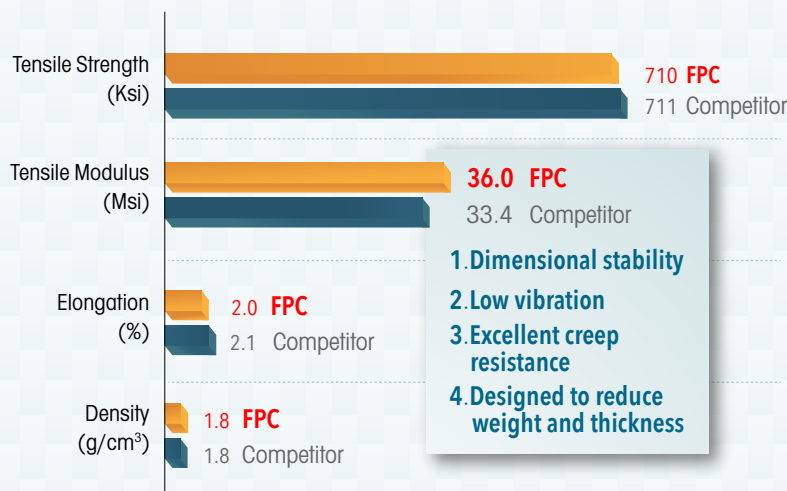
Application Wind Energy 、Automotive 、Cable Core 、
Pressure Vessel 、Sport 、Construction 、Pumping Pipe 、
C-C Composite 、Aerospace

Process SMC 、LFT 、Prepreg 、Weaving 、Injection 、
Compounding 、Winding 、Pultrusion 、RTM

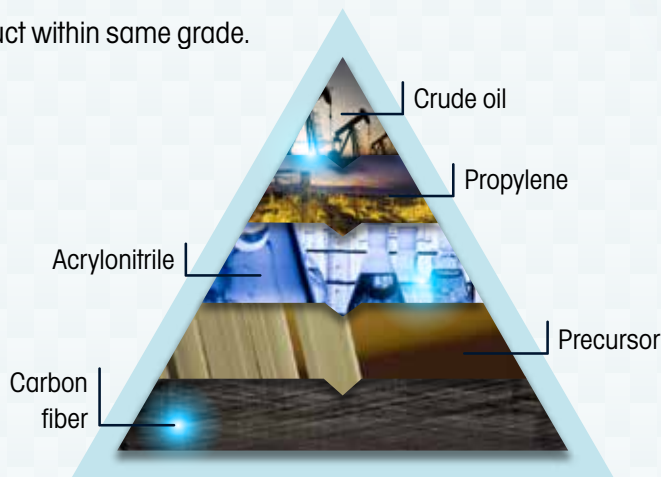


Advantage

Higher Tensile Modulus than competitor's product within same grade.



Take TC36P-12K as an exam



Formosa Plastics Corporation is the only company which enable to produce carbon fiber from refinery to carbonization in the world.

With this unique integrated advantage, We are the best stable and excellent source for your need in carbon fiber.

Specification

Available in various grades for different applications including high strength, standard to high modulus (33Msi - 55Msi) and small to large tow (1.5K - 48K).

Fiber Type	Yield Tex (g/1000m)	Tensile Strength		Tensile Modulus		Elongation (%)	Density (g/cm ³)	Filament Diameter (μm)
		Ksi	MPa	Msi	GPa			
TC33	1.5K	100						
	3K	200						
	6K	400						
TC35R	12K	800						
	24K	1600						
	48K	3200						
TC35	3K	200						
	6K	400						
	12K	800						
	24K	1600						
TC36P	12K	800						
	24K	1600						
TC42S	12K	440						
	24K	880						
TC55	12K	420						
	24K	840						

Contact

FORMOSA PLASTICS CORP.

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