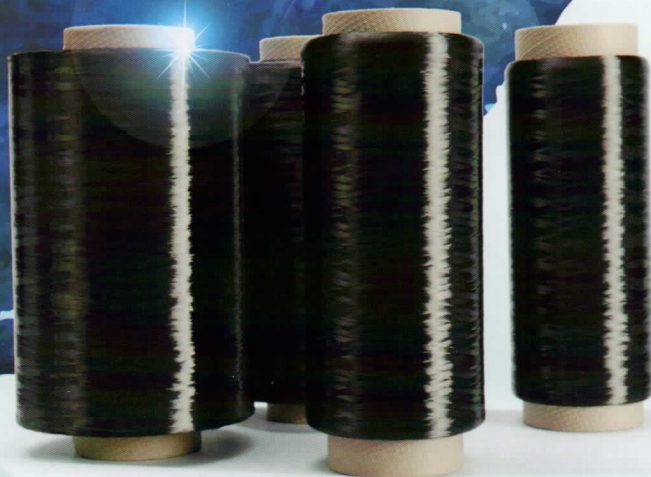




CARBON FIBER



# 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  $\mu\text{m}$ ). 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

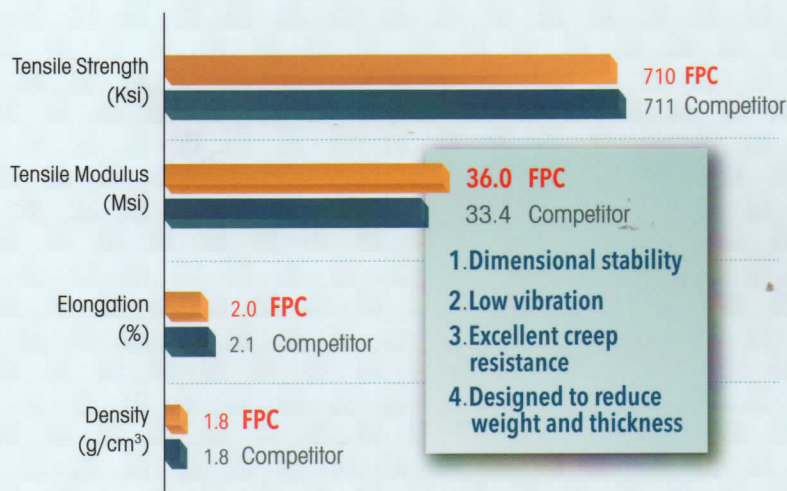
**Application** Wind Energy 、Automotive 、Cable Core 、  
Pressure Vessel 、Sport 、Construction 、Pumping Pipe 、  
C-C Composite 、Aerospace

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



## Advantage

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

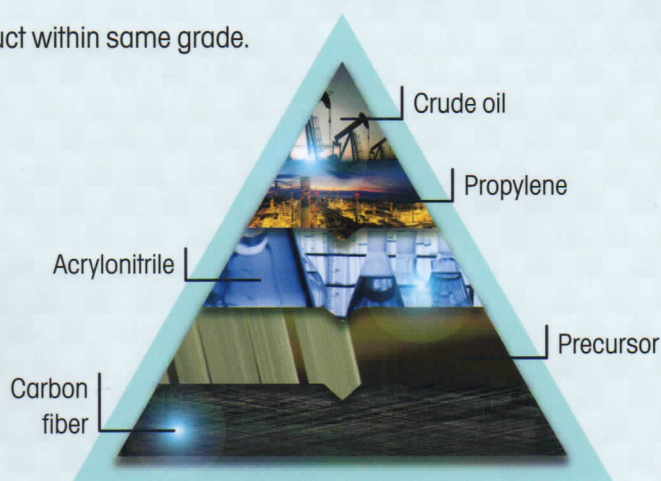


Take TC36P-12K as an exam

## 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/cm³)	Filament Diameter (μm)
			Ksi	MPa	Msi	GPa			
TC33	1.5K	100	500	3450	33	230	1.5	1.8	7
	3K	200							
	6K	400							
TC35R	12K	800	580	4000	35	240	1.7	1.8	7
	24K	1600							
	48K	3200							
TC35	3K	200	580	4000	35	240	1.7	1.8	7
	6K	400							
	12K	800							
TC36P	24K	1600	620	4278	35	240	1.8	1.8	7
	48K	3200							
	12K	800							
TC42S	24K	1600	710	4900	36	250	2.0	1.8	7
	48K	3200							
	12K	800							
TC55	24K	1600	825	5690	42	290	2.0	1.81	5.1
	48K	3200							
	12K	800							



**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.

## Contact

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**TAIRYLAN DIVISION**



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