



碳纖維是有機纖維經碳化、石墨化處理及一系列專業處理後得到的微晶石墨無機高分子纖維，是一種力學性能優異、强度高、比重輕、隔熱好、耐蝕性出類拔萃的新型材料；可與樹脂、金屬、陶瓷、混凝土等材料依不同比例構成性能各異的複合材料以滿足不同需求。

專業代理

作為台塑正式授權的碳纖維代理商，仁通實業和用家合作多年，質量穩定，價格優惠，歡迎訂購洽談。

用途

碳纖維及其複合材料具有“比鋼強,比鋁輕”的特性，可廣泛應用於：

- 運動器材： 網球拍、羽毛球拍、釣魚竿、弓箭、高爾夫球杆、滑水板、滑雪板、自行車
- 舟船： 游艇、高速舟艇之船身加強材料
- 工業機械： 化學工廠裝置、管件、軸承
- 車輛： 汽車骨架、剎車片、彈簧板、驅動軸
- 音響器材： 唱杆、喇叭殼、唱片刷
- 醫療器材： X光軟片盒、義肢、輪椅、人造骨頭
- 航天航空： 人造衛星、太空穿梭機、噴射器、火箭
- 建築材料補強： 碳纖維補強聚合物、結構性補強材料
- 風能產業： 風能發電葉片、機艙

規格

品名	項目規格	絲數	絲重 (g/1,000m)	抗拉強度		拉伸模量		延伸度(%)	密度(g/cm ³)	纖維直徑(μ)
				Ksi	MPa	Msi	GPa			
TC-33	1.5K	1,500	100	500	3,450	33	230	1.5	1.8	7.0
	3K	3,000	200							
	6K	6,000	400							
TC-35R	12K	12,000	800	580	4,000	35	240	1.7	1.8	7.0
	24K	24,000	1,600							
	48K	48,000	3,200							
TC-35	3K	3,000	200	580	4,000	35	240	1.7	1.8	7.0
	6K	6,000	400							
	12K	12,000	800							
TC-36P	24K	24,000	1,600	710	4,900	36	250	2.0	1.8	7.0
	12K	12,000	800							
	6K	6,000	400							
TC-42S	12K	12,000	440	825	5,690	42	290	2.0	1.81	5.1
	24K	24,000	880							
TC-55	12K	12,000	420	640	4,400	55	380	1.2	1.79	5.0
	24K	24,000	840							



ISO9001



AS9100C+JISQ9100+EN9100



OHSAS 18001



ISO - 14001

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Carbon fiber is a microcrystalline graphite inorganic polymer fiber made by carbonization, graphitization and a series of professional handling of organic fiber. It is a new material of excellent mechanical properties, high strength, light weighted, good insulation, outstanding corrosion resistance. By mixing carbon fiber with resin, metal, ceramics, concrete and other materials in different proportions constitute diverse performance accordingly to meet different needs.

Professional Agent

As the authorized official "TAIRFIL" Carbon Fiber agents, Ren Tong Industrial Limited have been cooperating with Formosa Plastics Corporation and buyers for decades, we offer stable supply of high quality and competitive price, any enquiries and consultations are highly welcome.

Applications

Carbon fiber and its composite materials are "stronger than steel, lighter than aluminum", are widely used in:

- Sports Equipment: Tennis and badminton rackets, fishing rods, bows, golf clubs, ski-board, snowboards, bicycle
- Boats: Yacht, hull reinforced materials
- Industrial Machinery: Chemical plant equipment, fittings, bearing
- Vehicle: Car frame, brakes, spring plate, drive shaft
- Audio Equipment: Singing bar, speaker shell, record brush
- Medical Equipment: X-ray film boxes, artificial limbs, wheelchairs, artificial bones
- Aerospace: Satellites, space shuttle, jet, rocket
- Civil Engineering: Carbon fiber reinforced polymer (CFRP), Structural reinforcement
- Wind Energy: Wind turbine blades & nacelle

Specifications

Fiber Type	Item Unit	Number of Filament	Yield Tex (g/1,000m)	Tensile Strength			Tensile Modulus		Elongation (%)	Density (g/cm ³)	Filament Diameter (μ)
				Ksi	MPa	Msi	GPa				
TC-33	1.5K	1,500	100	500	3,450	33	230	1.5	1.8	7.0	
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	6K	6,000	400								
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