



FORMOSA PLASTICS GROUP



▲ CARBON FIBER PLANT IN MALLIAO COMPLEX

From Crude Oil to TAIRYFIL

THE INTEGRATED ADVANTAGE OF FORMOSA PLASTICS CORPORATION



Item	Unit	Fiber Type	Number of Filament	Yield Tex (g/1,000m)	Tensile Strength			Tensile Modulus		Elongation (%)	Density (g/cm ³)	Filament Diameter (μ)
					kg/mm ²	Ksi	MPa	ton/mm ²	Msi			
TC-33	1.5K	TC-33	1,500	100	355	500	3,450	23.0	33	1.5	1.8	7
	3K		3,000	200								
	6K		6,000	400								
TC-35R	12K	TC-35R	12,000	800	410	580	4,000	24.5	35	1.7	1.8	7
	24K		24,000	1,600								
	48K		48,000	3,200								
TC-35	3K	TC-35	3,000	200	410	580	4,000	24.5	35	1.7	1.8	7
	6K		6,000	400								
	12K		12,000	800								
TC-36P	24K	TC-36P	24,000	1,600	440	620	4,278	24.5	35	1.8	1.8	7
	48K		48,000	3,200								
	12K		12,000	800								
TC-42S	24K	TC-42S	24,000	880	580	825	5,690	29.5	42	2.0	1.81	5.1
	12K		12,000	420								
	24K		24,000	840								
TC-55	12K	TC-55	12,000	420	450	640	4,400	39.0	55	1.2	1.79	5.0
	24K		24,000	840								



OHSAS 18001

ISO 14001

AS9100C+EN9100
+JISQ9100

ISO 9001

APPLICATIONS

- 1. Aerospace:** aircraft, jet aircraft, satellite, rocket, C/C disk brake, primary and secondary structure, etc.
- 2. Industry and Transportation:** vehicle, yacht, constructive reinforcement, cable core, CNG tank, roller, robot, blade of wind mill, brakes, LCD cassette, medical bed, notebook, etc.
- 3. Sports Goods:** tennis and badminton rackets, fishing rod, bow and arrow golf shaft, ski-board, bicycle, etc.

