



TAIRYFIL

D A T A S H E E T

WE DO EXCELLENCE FOR YOU

Formosa Plastics Corporation is the first company in Formosa Plastics Group. Formosa Plastics Group is the global leader in the industries of Petrochemicals, Fibers and Textiles, and Electronic Materials.

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.



FORMOSA PLASTICS CORPORATION



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FORMOSA PLASTICS GROUP



▲ CARBON FIBER PLANT IN MAILIAO COMPLEX

From Crude Oil to TAIRYFIL

THE INTEGRATED ADVANTAGE OF FORMOSA PLASTICS CORPORATION



OHSAS 18001



ISO 14001



AS9100C+EN9100
+JISQ9100



ISO 9001



▲PRECURSOR

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.



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							
	3K	3,000	200	500	3,450	33	230	1.5	1.8	7
	6K	6,000	400							
TC-35R	12K	12,000	800							
	24K	24,000	1,600	580	4,000	35	240	1.7	1.8	7
	48K	48,000	3,200							
TC-35	3K	3,000	200	580	4,000	35	240	1.7	1.8	7
	6K	6,000	400							
	12K	12,000	800							
TC-36P	24K	24,000	1,600	620	4,278	35	240	1.8	1.8	7
	48K	48,000	3,200							
	12K	12,000	800	710	4,900	36	250	2.0	1.8	7
TC-42S	24K	24,000	1,600							
	12K	12,000	800	825	5,690	42	290	2.0	1.81	5.1
TC-55	24K	24,000	840	640	4,400	55	380	1.2	1.79	5.0
	12K	12,000	420							

