

# TAIRYFIL

DATA SHEET

## 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 TAIRYLAN DIVISION

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FORMOSA PLASTICS CORPORATION





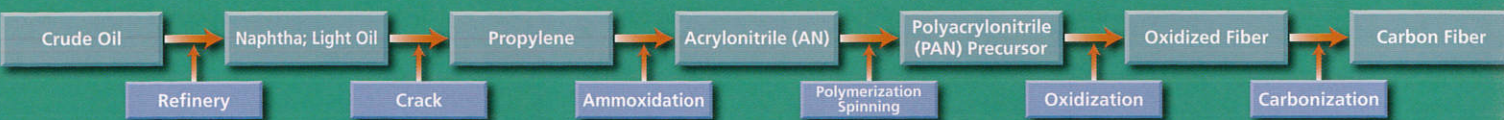
FORMOSA PLASTICS GROUP



▲ CARBON FIBER PLANT IN MAILIAO COMPLEX

## From Crude Oil to TAIRYFIL

THE INTEGRATED ADVANTAGE OF FORMOSA PLASTICS CORPORATION



## SPECIFICATION

Fiber Type	Item	Number of Filament	Yield Tex (g/1,000m)	Tensile Strength		Tensile Modulus		Elongation (%)	Density (g/cm <sup>3</sup> )	Filament Diameter (μ)
	Unit			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-35	3K	3,000	200							
	6K	6,000	400							
	12K	12,000	800	580	4,000	35	240	1.6	1.8	7
	24K	24,000	1,600							
TC-36S	12K	12,000	800	710	4,900	36	250	2.0	1.81	7
	24K	24,000	1,600							
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							



OHSAS 18001



ISO 14001



AS9100C+EN9100  
+JISQ9100



REACH



▲ 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.

