

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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TAIRYFIL

DATA SHEET



FORMOSA PLASTICS CORPORATION

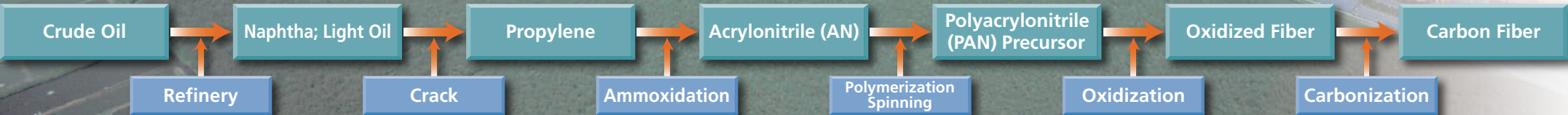


FORMOSA PLASTICS GROUP



▲ CARBON FIBER PLANT IN MAILIAO INDUSTRIAL PARK

From Crude Oil to TAIRYFIL
THE INTEGRATED ADVANTAGE OF FORMOSA PLASTICS CORPORATION



OHSAS 18001



ISO 14001



AS9100B+EN9100+JISQ9100



SPECIFICATION

| 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 |
| | 3K | 3,000 | 200 | 500 | 3,450 | 33 | 230 | 1.5 | 1.8 | 7 |
| | 6K | 6,000 | 400 | 500 | 3,450 | 33 | 230 | 1.5 | 1.8 | 7 |
| TC-35 | 3K | 3,000 | 200 | 580 | 4,000 | 35 | 240 | 1.6 | 1.8 | 7 |
| | 6K | 6,000 | 400 | 580 | 4,000 | 35 | 240 | 1.6 | 1.8 | 7 |
| | 12K | 12,000 | 800 | 580 | 4,000 | 35 | 240 | 1.6 | 1.8 | 7 |
| | 24K | 24,000 | 1,600 | 580 | 4,000 | 35 | 240 | 1.6 | 1.8 | 7 |
| TC-36S | 12K | 12,000 | 800 | 710 | 4,900 | 36 | 250 | 2.0 | 1.81 | 7 |
| | 24K | 24,000 | 1,600 | 710 | 4,900 | 36 | 250 | 2.0 | 1.81 | 7 |
| TC-42S | 12K | 12,000 | 430 | 825 | 5,690 | 42 | 290 | 2.0 | 1.81 | 5.1 |
| | 24K | 24,000 | 860 | 825 | 5,690 | 42 | 290 | 2.0 | 1.81 | 5.1 |

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, 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.

PRECURSOR ▶

