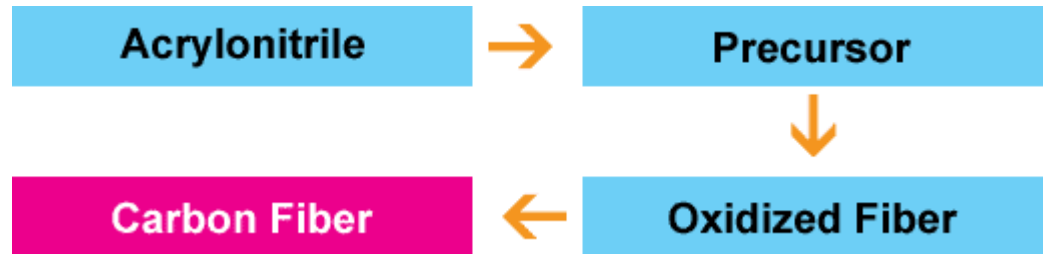




TAIRYFIL
CARBON FIBER



◆ **Product Introduction**



◆ **Properties**

Fiber Type	Item Unit	Number of Filament	Yield Tex (g/ 1000m)	Tensile Strength		Tensile Modulus		Elongation (%)	Density (g/cm ³)	Filament Diameter (μ)
				Ksi	Mpa	Msi	Gpa			
TC-33	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
	12K	12,000	800	500	3,450	33	230	1.5	1.8	7
	24K	24,000	1600	500	3,450	33	230	1.5	1.8	7
TC-35	12K	12,000	800	580	4,000	35	240	1.6	1.8	7
	18K	18,000	1000	580	4,000	35	240	1.6	1.8	6.5
TC-36	3K	3,000	180	680	4,680	36	250	1.9	1.81	6.5
	6K	6,000	360	680	4,680	36	250	1.9	1.81	6.5
	12K	12,000	800	680	4,680	36	250	1.9	1.81	7
TC36S	18K	18,000	800	710	4,890	36	250	2.0	1.81	5.6
TC-42	6K	6,000	260	710	4,890	42	290	1.7	1.8	5.7
	12K	12,000	520	710	4,890	42	290	1.7	1.8	5.7

◆ **Applications**

"Stronger than steel but lighter than aluminum", an excellent material-TAIRYFIL(carbon fiber) can be widely

used for many kinds of fields. Its main applications are as follows:

1. Sports and Leisure: tennis and badminton rackets, fishing rod, bow, golf shaft, surfboard, ski-board, bicycle, etc.
2. Vessels: yacht, reinforcing material for high-speed hull, windsurfing etc.
3. Electric facility: computer, electric blanket, TV antenna, etc.
4. Industrial use: tank, piping, bearing, CNG tank, roll, robot, blade of wind mill packing, etc.
5. Vehicles: frame, friction lining for automotive brakes, leaf spring, drive shaft, racing car etc.
6. Medical devices: X-ray film cassette, wheelchair, bed of X-ray diagnostic equipment, etc.
7. Space and Aerial-aviation: satellite, space shuttle, jet aircraft, jet fighter, rocket, C/C disk brake, etc.
8. Civil engineering: repairing and reinforcing material for bridges, building, etc.



◆ Safe processing and handling

1. Operation

TAIRYFIL, a superior conductor, should be kept away from electricity sources in operation. Operation equipment must be completely insulated to prevent shocks caused by the direct contact of TAIRYFIL to electricity.

2. Storage

TAIRFYIL is coiled on bobbins and stored in cartons which should not be crushed, or it will damage the surface of TAIRYFIL and its subsequent processing.



Marktek Inc. – The One-Stop Shop for Conductive Materials

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