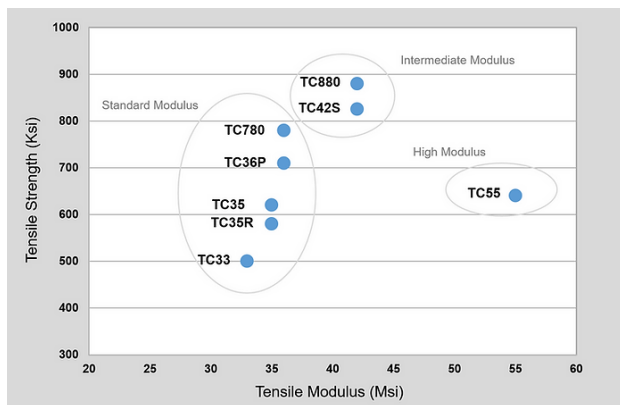




台塑關係企業  
FORMOSA PLASTICS GROUP

# TAIRYFIL CARBON FIBRE

Formosa Plastics is unique in that it is the only carbon fibre manufacturer that produces everything within the group inside Taiwan starting from the crude oil and ending up with the 'Tairyfil' brand carbon fibre yarn. Formosa is rated the 6th biggest chemical company in the world.



1.5K, 3K, 6K, 12K, 24K & 48K continuous filament carbon fibre yarns are suitable for weaving, filament winding, pultrusion, unidirectional fabrics, multiaxial fabrics, etc.

Multi-compatible sizings available suited to epoxy and other systems.

Our capabilities include 8 different grades with a wide range of composite properties suited to automotive, sport, marine, aerospace, renewable energies and varied industrial fields.

Fibre Type	Number of Filament	Yield Tex (g/1,000m)	Tensile Strength		Tensile Modulus		Elongation %	Density (g/cm <sup>3</sup> )	Filament Diameter (µm)	
			Ksi	Mpa	Msi	Gpa				
TC-33	1.5K	1500	100	500	3450	33	230	1.5	1.8	7.0
	3K	3000	200	500	3450	33	230	1.5	1.8	7.0
	6K	6000	400	500	3450	33	230	1.5	1.8	7.0
TC-35R	12k	12,000	800	580	4000	35	240	1.7	1.8	7.0
	24k	24,000	1,600	580	4000	35	240	1.7	1.8	7.0
	48K	48,000	3,200	580	4000	35	240	1.7	1.8	7.0
TC-35	3K	3000	200	580	4000	35	240	1.7	1.8	7.0
	6k	6000	400	580	4000	35	240	1.7	1.8	7.0
	12K	12000	800	620	4278	35	240	1.8	1.8	7.0
	24K	24000	1600	620	4278	35	240	1.8	1.8	7.0
	48K	48000	3200	620	4278	35	240	1.8	1.8	7.0
TC-36P	12K	12,000	800	710	4900	36	250	2.0	1.81	7.0
	24K	24,000	1600	710	4900	36	250	2.0	1.81	7.0
TC-780	12K	12,000	800	780	5380	36	250	2.2	1.8	7.0
	24K	24,000	1600	780	5380	36	250	2.2	1.8	7.0
TC-880	12K	12,000	780	880	6072	42	290	2.1	1.8	6.8
TC-42S	12K	12000	440	825	5690	42	290	1.8	1.81	5.1
	24K	24000	880	825	5690	42	290	1.8	1.81	5.1
TC-55	12K	12000	420	640	4400	55	380	1.2	1.79	5.0
	24K	24000	840	640	4400	55	380	1.2	1.79	5.0



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