

Specification of Tairyfil Carbon Fibre yarn

- Available in various grades for different applications including high strength, standard to high modulus (33Msi - 55Msi) and small to large tow (1.5K - 48K).

	Type	unit	Yield Tex (g/1000m)	Tensile Strength		Tensile Modulus		Elongation (%)	Density (g/cm ³)	Filament Diameter (µm)
				Ksi	MPa	Msi	GPa			
Standard Modulus	TC33	1.5K	100	500	3450	33	230	1.5	1.8	7
		3K	200							
		6K	400							
	TC35R	12K	800	580	4000	35	240	1.7	1.8	7
		24K	1600							
		48K	3200							
	TC35	3K	200	580	4000	35	240	1.7	1.8	7
		6K	400							
		12K	800							
		24K	1600							
48K		3200								
TC36P	12K	800	710	4900	36	250	2.0	1.8	7	
	24K	1600								
Intermediate Modulus	TC42S	12K	440	825	5690	42	290	2.0	1.81	5.1
		24K	880							
High Modulus	TC55	12K	420	640	4400	55	380	1.2	1.79	5.0
		24K	840							