



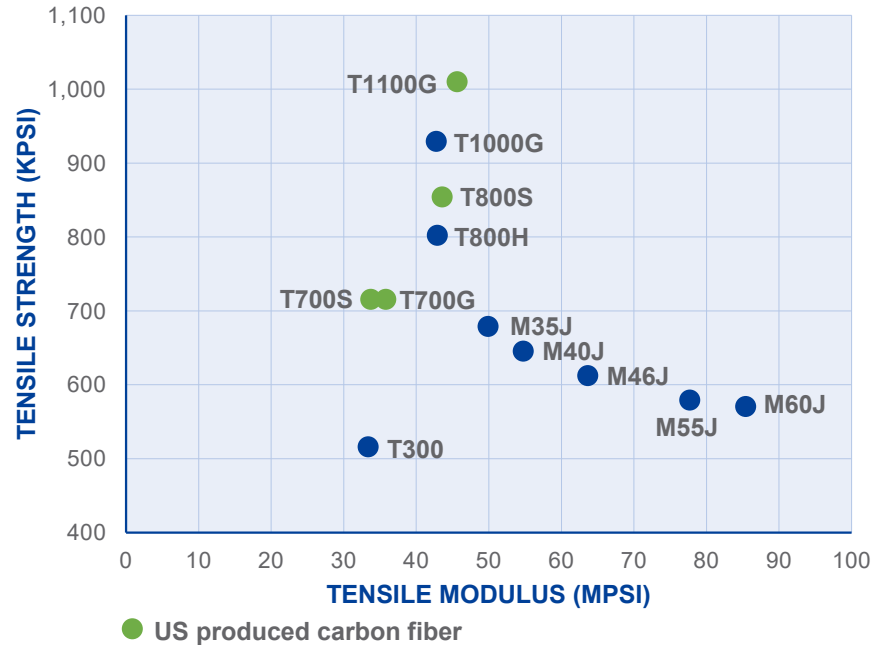
Innovation by Chemistry

Toray's TORAYCA™ carbon fiber is globally recognized for its outstanding performance, quality, and consistency in processing.



Range of Carbon Fiber Properties

Tensile Strength and Modulus



All values noted are lot average typical properties. They are used for material selection purposes only.

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TORAYCA™ TYPICAL FIBER PROPERTIES (Nominal Values)

FIBER TYPE		Number of Filaments	Sizing Type	Tensile Strength*		Tensile Modulus*		Elongation %	Yield g/1000m	Density g/cm ³	Standard Spool Size** (kg)
				Ksi	MPa	Msi	GPa				
STANDARD MODULUS	T300	1,000	4,5	512	3,530	33.4	230	1.5	66	1.76	1.0
		3,000	4,5						198		2.0
		6,000	4,5						396		2.0
	T400H	3,000	4	669	4,610	36.3	250	1.8	198	1.80	2.0
		6,000	4						396		2.0
	T700S	6,000	5	711	4,900	33.4	230	2.1	396	1.80	2.0
		12,000	5,6,F						800		4.0, 6.0, 8.0
		24,000	5,6,F						1,650		6.0, 8.0
	T700G	12,000	3,4,5	711	4,900	34.8	240	2.0	800	1.80	6.0
	INTERMEDIATE MODULUS	T800H	6,000	4	796	5,490	42.7	294	1.9	223	1.81
12,000			4,5	445						4.0	
T830H		6,000	4	774	5,340	42.7	294	1.8	223	1.81	2.0
T800S		12000	5	853	5,880	42.7	294	2.0	515	1.80	4.0
		24,000	1						1,030		4.0
T1000G		12,000	4	924	6,370	42.7	294	2.2	485	1.80	4.0
T1100S		12,000	5	1017	7,000	47.0	324	2.2	505	1.79	2.0
		24,000	5						1010		1.0
T1100G		12,000	7	1017	7,000	47.0	324	2.2	505	1.79	2.0
		24,000	7						1010		4.0
HIGH MODULUS	M35J	6,000	5	654	4,510	49.8	343	1.3	225	1.75	1.0
		12,000	5	683	4,700			1.4	450		2.0
	M40J	6,000	5	640	4,400	54.7	377	1.2	225	1.77	1.0
		12,000	5						450		2.0
	M46J	6,000	5	609	4,200	63.3	436	1.0	223	1.84	1.0
		12,000	5	583	4,020			0.9	445		2.0
	M55J	6,000	5	583	4,020	78.2	540	0.8	218	1.91	0.5
	M60J	3,000	5	554	3,820	85.3	588	0.7	103	1.93	0.25
6,000		5	206						0.4		

*Measured using the impregnated strand method. This information should be used for material selection purposes only.

** Other sizes available, refer to product data sheet.