

TORAYCA[®] QUALITY CARBON FIBER

The best from TORAY, leader in carbon fiber technology.

TORAYCA –TYPICAL FIBER PROPERTIES											
FIBER TYPE	Number of Filaments	Sizing Type	Tensile Strength		Tensile Modulus		Elongation	Yield	Density	Standard Spool Size (kg)	
			ksi	MPa	Msi	GPa	%	g/1000m	g/cm³		
T300	1,000	4,5	512	3,530	33.4	230	1.5	66	1.76	1.0	
	3,000 ¹⁾	4,5						198		2.0	
	6,000 ¹⁾	4,5						396		2.0	
	12,000 ¹⁾	4,5						800		4.0	
T300J	3,000 ²⁾	4	611	4,210	33.4	230	1.8	198	1.78	2.0	
	6,000 ²⁾	4						396		2.0	
	12,000	5						800		4.0	
T400H	3,000	4	640	4,410	36.3	250	1.8	198	1.80	2.0	
	6,000	4						396		2.0	
T600S	24,000 ³⁾	5,6	600	4,140	33.4	230	1.8	1,700	1.79	6.0	
T700S	12,000 ³⁾	5,6,F	711	4,900	33.4	230	2.1	800	1.80	6.0	
	24,000 ³⁾	5,6,F						1,650		6.0	
T700G	12,000 ³⁾	3	711	4,900	34.8	240	2.0	800	1.80	6.0	
	24,000 ³⁾	3						1,650		6.0	
T800H	6,000	4	796	5,490	42.7	294	1.9	223	1.81	2.0	
	12,000	4,5						445		4.0	
T800S	24,000 ³⁾	1	853	5,880	42.7	294	2.0	1,030	1.80	4.0	
T1000G	12,000	4	924	6,370	42.7	294	2.2	485	1.80	2.0	
M35J	6,000	5	683	4,700	49.8	343	1.4	225	1.75	1.0	
	12,000	5						450		2.0	
M40J	3,000	5	640	4,410	54.7	377	1.2	113	1.77	0.5	
	6,000 ¹⁾	5						225		1.0	
	12,000 ¹⁾	5						450		2.0	
M46J	6,000 ¹⁾	5	611	4,210	63.3	436	1.0	223	1.84	1.0	
	12,000 ¹⁾	5						445		2.0	
M50J	3,000	5	597	4,120	69.0	475	0.8	109	1.88	0.5	
	6,000	5						218		1.0	
M55J	6,000	5	583	4,020	78.2	540	0.8	218	1.91	0.5	
M60J	3,000	5	569	3,920	85.3	588	0.7	103	1.93	0.2	
	6,000	5						206		0.4	
M30S	18,000 ³⁾	5	796	5,490	42.7	294	1.9	760	1.73	4.0	
M30G	18,000 ³⁾	1	739	5,100	42.7	294	1.7	760	1.73	4.0	
M40	1,000	5	398	2,740	56.9	392	0.7	61	1.81	0.15	
	3,000	4						182		1.0	
	6,000 ¹⁾	5						364		1.5	
	12,000 ¹⁾	5						728		4.0	

* Measured using the impregnated strand method.

This information can be used for material selection purposes only.

¹⁾ These equivalent fibers are also produced by SOFCAR in France.

²⁾ These fibers are produced by SOFCAR.

³⁾ These equivalent fibers are also produced by CFA in Alabama.

Torayca offers reliability based on

- the world's widest range of user qualifications, utilizing technology backed by Toray's research and development activities
- highly consistent product quality, a result of Toray's quality control system
- a yarn that ensures superior handling and processing
- the largest variety of carbon fiber product specifications, with numerous strength and modulus combinations available
- a comprehensive quality control system that has satisfied audits by various aircraft manufacturers

