

CARBON FIBER

YSH and YS Grade (7 micron diameter) : Aerospace and sports application

Grade	Filament	Tensile Modulus		Tensile Strength		Elongation	Density	Yield
		GPa	MSI	MPa	KSI	%	g/cm ³	g/1000m
YSH-70A-10S	1000	720	105	3630	530	0.5	2.14	75
YSH-70A-30S	3000	720	105	3630	530	0.5	2.14	250
YSH-70A-60S	6000	720	105	3630	530	0.5	2.14	520
YSH-70A-A2S	12000	720	105	3630	530	0.5	2.14	1040
YSH-60A-10S	1000	630	92	3830	570	0.6	2.12	75
YSH-60A-30S	3000	630	92	3830	570	0.6	2.12	250
YSH-60A-60S	6000	630	92	3830	570	0.6	2.12	520
YSH-60A-A2S	12000	630	92	3600	570	0.5	2.12	1040
YSH-50A-10S	1000	520	76	3830	570	0.7	2.10	75
YSH-50A-30S	3000	520	76	3830	570	0.7	2.10	250
YSH-50A-60S	6000	520	76	3830	570	0.7	2.10	520
YS-90A-30S	3000	880	128	3530	510	0.3	2.18	250
YS-90A-60S	6000	880	128	3530	510	0.3	2.18	520
YS-80A-30S	3000	785	114	3630	530	0.5	2.17	250
YS-80A-60S	6000	785	114	3630	530	0.5	2.17	520

XN Grade (10 micron diameter) : Industrial and sports application

Grade	Filament	Tensile Modulus		Tensile Strength		Elongation	Density	Yield
		GPa	MSI	MPa	KSI	%	g/cm ³	g/1000m
XN-90-60S	6000	860	125	3430	500	0.4	2.19	880
XN-80-A2S	12000	780	114	3430	500	0.5	2.17	1780
XN-80-60S	6000	780	114	3430	500	0.5	2.17	890
XN-60-A2S	12000	620	90	3430	500	0.6	2.12	1780
XN-60-60S	6000	620	90	3430	500	0.6	2.12	890

XN Grade (10 micron diameter) : Low Modulus and High elongation

Grade	Filament	Tensile Modulus		Tensile Strength		Elongation	Density	Yield
		GPa	MSI	MPa	KSI	%	g/cm ³	g/1000m
XN-15-30S	3000	155	22	2400	350	1.5	1.85	470
XN-10-30S	3000	110	16	1700	250	1.6	1.70	475
XN-05-30S	3000	54	8	1100	160	2.0	1.65	410