PYROFIL™

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Typical Properties of Carbon Fiber

PYROFIL™

	Type	Number of Filaments	Filament Diameter	Yield	Tensile Strength			Tensile Modulus			Elongation	Density
			μm	mg/m	kg/mm2	Mpa	Ksi	ton/mm2	GPa	Msi	%	g/cm3
HT Series	TR 30S 3L	3,000	7	200	420	4,120	600	24.0	234	34	1.8	1.79
	TR 50S 6L	6,000	7	400	500	4,900	710	24.5	240	35	2.0	1.82
	TR 50S12L	12,000	7	800								
	TR 50S15L	15,000	7	1,000								
	TR 50D12L	12,000	7	800	510	5,000	720	24.5	240	35	2.1	1.82
	TRH50 18M	18,000	6	1000	540	5,300	770	25.5	250	36	2.1	1.82
	TRH50 60M	60,000	6	3,200	490	4,830	700	25.5	250	36	1.9	1.81
	TRW40 50L	50,000	8	3,750	420	4,120	600	24.5	240	35	1.7	1.80
IM Series	MR 60H 24P	24,000	5	960	580	5,680	820	29.5	290	42	1.9	1.81
HM Series	MS 40 12M	12,000	6	600	450	4,410	640	35.0	345	50	1.3	1.77
	HR 40 12M	12,000	6	600	450	4,410	640	40.0	395	57	1.1	1.82
	HS 40 12P	12,000	5	430	470	4,610	670	46.0	455	65	1.0	1.85

GRAFIL™

	Type	Number of Filaments	Filament Diameter	Yield	Tensile Strength			Tensile Modulus			Elongation	Density
			μm	mg/m	kg/mm2	Mpa	Ksi	ton/mm2	GPa	Msi	%	g/cm3
HT Series	34-700	12,000	7	800	490	4,830	700	24.0	234	34	2.0	1.80
		24,000	7	1,600								
	37-800	30,000	6	1,675	560	5,520	800	26.0	255	37	2.1	1.81

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