

Honeywell Spectra® Fiber

PHYSICAL PROPERTIES (nominal)

Product Family	Spectra® fiber	Weight/ Unit Length (denier) / (decitex)	Ultimate Tensile Strength (g/den) / (Gpa)	Modulus (g/den) / (Gpa)	Elongation (%)	Breaking Strength (lbs)	Density (g/cc) / (lbs/in ³)	Filament Tow	Filament (dpf)
HT	240	267	41	1350-1650	3.1-3.5	22	.97	60	4
	300	333	39.5	1200-1500	2.9-3.7	26	.97	60	5
	375	417	45	1300-1700	2.9-3.6	38	.97	120	3.1
S-900	650-926	650 / 722	30.5 / 2.61	920 / 79	3.6	44	0.97 / 0.035	60	10.8
	1200	1200 / 1333	30 / 2.57	850 / 73	3.9	79	0.97 / 0.035	120	10.0
	2400	2400 / 2667	29.5 / 2.53	915 / 78	3.9	157.7	0.97 / 0.035	240	10.0
	4800	4800 / 5333	26.5 / 2.27	885 / 76	3.6	281	0.97 / 0.035	480	10.0
	5600	5600 / 6222	25.5 / 2.18	775 / 66	3.5	315	0.97 / 0.035	480	11.7
S-1000	75	75 / 83	43 / 3.68	1550 / 133	2.9	7	0.97 / 0.035	40	1.9
	100	100 / 111	40.5 / 3.47	1580 / 135	2.9	9	0.97 / 0.035	40	2.5
	130	130 / 144	38 / 3.25	1390 / 113	3.2	11.1	0.97 / 0.035	40	3.3
	180	180 / 200	38 / 3.25	1310 / 112	3.3	15.1	0.97 / 0.035	60	3.0
	200	210 / 233	38 / 3.25	1160 / 90	3.5	17.9	0.97 / 0.035	82	2.5
	215	215 / 239	38 / 3.25	1320 / 113	2.9	18	0.97 / 0.035	60	3.6
	275	275 / 306	36 / 3.08	1320 / 113	3.1	22	0.97 / 0.035	60	4.6
	375-133	375 / 417	35 / 3.00	1200 / 103	3.1	29	0.97 / 0.035	60	6.3
	375-189	375 / 417	35 / 3.00	1200 / 103	3.1	29	0.97 / 0.035	60	6.3
	400	409 / 454	36 / 3.08	1090 / 93	3.4	33.5	0.97 / 0.035	164	2.5
	435-145	435 / 483	37.5 / 3.21	1260 / 108	3.3	36	0.97 / 0.035	120	3.6
	435-195	435 / 483	37.5 / 3.21	1260 / 108	3.3	36	0.97 / 0.035	120	3.6
	650-115	650 / 722	36 / 3.08	1175 / 101	3.3	52	0.97 / 0.035	120	5.4
	1300-143	1300 / 1444	37.5 / 3.21	1345 / 115	3.3	107.5	0.97 / 0.035	240	5.4
	1300-159	1300 / 1444	35.5 / 3.04	1300 / 111	3.3	101.7	0.97 / 0.035	240	5.4
	1600-180	1600 / 1779	38 / 3.25	1380 / 118	3.3	135	0.97 / 0.035	360	4.4
	2600	2600 / 2889	34 / 2.91	1135 / 97	3.5	195	0.97 / 0.035	480	5.4

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