

Properties of Atlantic Cypress and Comparable Woods

Species Common Name	Specific Gravity	Modulus of Rupture (psi)	Apparent Modulus of Elasticity (psi)	Work to Maximum Load (psi)	Shear Strength Test (psi)	Compression Perpendicular (psi)	Compression Parallel (psi)	Janka Hardness (lbs)
ATLANTIC CYPRESS	0.46	10600	1.42E+06	8.2	1000	730	6360	510
Western Red Cedar	0.32	7500	1.11E+06	5.8	990	460	4560	350
Domestic								
Alder, Red	0.41	9800	1.38E+06	8.4	1080	440	5820	590
Ash, White	0.6	15000	1.74E+06	16.6	1910	1160	7410	1320
Beech, American	0.64	14900	1.72E+06	15.1	2010	1010	7300	1300
Birch, Yellow	0.62	16600	2.01E+06	20.8	1880	970	8170	1260
Black Cherry	0.5	12300	1.49E+06	11.4	1700	690	7110	950
Elm, American	0.5	11800	1.34E+06	13.0	1510	690	5520	830
Elm, Slippery	0.53	13000	1.49E+06	16.9	1630	820	6360	860
Hickory, Pignut	0.75	20100	2.26E+05	30.4	2150	1980	9190	N/A
Hickory, Shagbark	0.72	20200	2.16E+06	25.8	2430	1760	9210	N/A
Maple, Red	0.54	13400	1.64E+06	12.5	1850	1000	6450	950
Maple, Sugar	0.63	15800	1.83E+06	16.5	2330	1470	7830	1450
Oak, Black	0.61	13900	1.64E+00	13.7	1910	930	6520	1210
Oak, Northern Red	0.63	14300	1.82E+06	14.5	1780	1010	6760	1290
Oak, Scarlet	0.67	17400	1.91E+06	20.5	1890	1120	8330	1400
Oak, Chestnut	0.66	13300	1.59E+06	11.0	1490	840	6830	1130
Oak, White	0.68	15200	1.78E+06	14.8	2000	1070	7440	1130
Walnut, Black	0.55	14600	1.68E+06	10.7	1370	1010	7580	1010
Yellow Poplar	0.42	10100	1.58E+06	8.8	1190	500	5540	540
Douglas Fir, Interior North	0.48	13100	1.79E+06	10.5	1400	770	6900	600
Pine, Eastern White	0.35	8600	1.24E+06	6.8	900	440	4800	380
Pine, Longleaf	0.59	14500	1.98E+06	11.8	1510	960	8470	870
Pine, Ponderosa	0.4	9400	1.29E+06	12.9	1130	580	5320	460
Pine, Shortleaf	0.51	13100	1.75E+06	11.0	1390	820	7270	690
Redwood, Old Growth	0.4	10000	1.34E+06	6.9	940	700	6150	480
Redwood, Young Growth	0.35	7900	1.10E+06	5.2	1110	520	5220	420
Tropical								
Bubinga	.71*	22600	2.48E+06	N/A	3110	N/A	10500	2690
Ipe	.92*	25400	3.14E+06	22.0	2060	N/A	13010	3680
Mahogany, African	.42*	10700	1.40E+06	8.3	1500	N/A	6460	830
Mahogany, True	.45*	11500	1.50E+06	7.5	1230	N/A	6780	800
Obeche	.30*	7400	8.60E+05	6.9	990	N/A	3930	430
Pine, Radiata	.42*	11700	1.48E+06	N/A	1600	N/A	6080	750
Ramin	.52*	18500	2.17E+06	17.0	1520	N/A	10080	1300
Sapele	.55*	15300	1.82E+06	15.7	2260	N/A	8160	1510
Shorea, Dark Red	.46*	12700	1.77E+06	13.8	1450	N/A	7360	780
Shorea, Light red	.34*	9500	1.23E+06	8.6	970	N/A	5920	460
Spanish Cedar	.41*	11500	1.44E+06	9.4	1100	N/A	6210	600

Sources: Penn State University Study conducted by Thomas Baust and the USDA Forestry Handbook * Green Specific Gravity



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