RED GRANDIS

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Sustainable forests

Properties of Red Grandis 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)
	RED GRANDIS	0.55	11250	1.42E+06	8.7	1671	1320	6345	720
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
	Western Red Cedar	0.32	7500	1.11E+06	5.8	990	460	4560	350
	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

2 Penn State University Study conducted by Thomas Baust 3 Wood Properties out of the Wood Handbook * Green Specific Gravity

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