

PHYSICAL PROPERTIES

Metric

Species	Spec. Gravity (12% M.C.)	Avg. Shpg. Wt. Kilograms (kg) Per Cubic Meter (m ³)		Avg. Volumetric Shrkg. (Oven Dry % of Green)	Modulus of Rupture (psi) (Kilopascals)	Modulus of Elas- ticity (Mil. psi) (Megapascals)	Side Hardness (Newtons)
		Green	Air Dry				
ASH, White	0.60	747	594	13.3	106,000	12,000	5,900
BASSWOOD	0.37	640	381	15.8	60,000	10,100	1,800
BEECH	0.64	869	610	17.2	103,000	11,900	5,800
BIRCH, Yellow	0.62	869	640	16.8	114,000	13,900	5,600
CHERRY, Black	0.50	793	625	11.5	55,000	9,000	2,900
CHESTNUT	0.43	823	457	8.2	39,000	6,400	1,900
COTTONWOOD	0.40	747	457	13.9	37,000	7,000	1,500
CYPRESS, Southern	0.46	625	484	10.5	73,300	9,900	2,200
ELM, American	0.50	762	488	14.6	81,000	9,200	3,700
ELM, Red	0.53	823	610	13.8	90,000	10,300	3,800
GUM, Sap, Red	0.52	838	533	15.8	86,000	11,300	3,800
HACKBERRY	0.53	747	533	13.8	76,000	8,200	3,900
HICKORY	0.72	945	716	17.8	139,000	14,900	7,000
MAGNOLIA	0.50	732	518	12.3	77,000	9,700	4,500
MAPLE, Hard	0.63	838	655	14.7	109,000	12,600	6,400
MAPLE, Soft	0.47	762	564	12.0	61,000	7,900	3,100
OAK, Red	0.63	884	640	16.1*	99,000	12,500	5,700
OAK, White	0.68	884	640	15.5*	105,000	12,300	6,000
PECAN	0.66	975	716	13.6	94,000	11,900	8,100
PINE, Southern	0.51	793	549	12.3*	88,000	12,300	3,100
PINE, Heart	0.59	939	650	12.3*	100,000	13,700	3,900
PINE, White	0.35	686	442	8.2	67,000	10,100	1,900
POPLAR, Yellow	0.42	701	488	12.7	70,000	10,900	2,400
SASSAFRAS	0.46	747	503	10.3	62,000	7,700	2,800
SYCAMORE	0.49	732	518	14.1	69,000	9,800	3,400
TUPELO, Black & Water	0.50	777	518	13.4*	66,000	8,300	3,600
WALNUT, Black	0.55	747	579	12.8	101,000	11,600	4,500
WILLOW, Black	0.39	610	457	13.9	54,000	7,000	2,800