	SOURCE OR METHOD	VALUE
BENDING STRENGTH (PSI @ 12%)	USDA Forest Service	16,620
MODULUS OF ELASTICITY (1000 PSI @ 12%)	USDA Forest Service	2,230
MAXIMUM CRUSHING STRENGTH (PSI @ 12%)	USDA Forest Service	10,320
JANKA SIDE HARDNESS (DRY)	USDA Forest Service	2,160
WEIGHT (GREEN)	USDA Forest Service	77 lbs/cu.ft.
DENSITY (OVEN DRY/GREEN VOLUME AIR DRY WT)	USDA Forest Service	.75 – 60 lbs/cu.ft.
RADIAL SHRINKAGE (GREEN TO OVEN DRY)	USDA Forest Service	4.0%
TANGENTIAL SHRINKAGE (GREEN TO OVEN DRY)	USDA Forest Service	7.6%
VOLUMETRIC SHRINKAGE (GREEN TO OVEN DRY)	USDA Forest Service	10.0%
COEFFICIENT OF FRICTION (DRY)	ASTM F1679	0.96
COEFFICIENT OF FRICTION (WET)	ASTM F1679	0.61
DURABILITY—FUNGI	USDA Forest Service	Very durable
DURABILITY—DRY WOOD BORERS	USDA Forest Service	Very durable (risk limited to sapwood)
DURABILITY—TERMITES	USDA Forest Service	Very durable
PERMEABILITY	USDA Forest Service	Very difficult to chemically impregnate
SAWING & MACHINING	Sawtooth recommended Cutting tools Knife cutting angle	Satellite tipped Tungsten carbide 15 Degrees
NAILING / SCREWING	Pre-boring recommended	
GLUING	Use glues with longer open time such as exterior or woodworkers white glue	