Pond Pine (Pinus Serotina)

Botanical Name:	Pinus serotina
Other Common Names:	Pond pine, Pine, Marsh pine, Pocosin pine
Common Uses:	Fiberboard, Hardboards, Mine timbers, Particleboard, Piling, Poles, Pulpwood, Railroad ties, Utility crossarms, Utility plywood, Veneer, Core Stock, Crossties, Decorative veneer, Figured veneer, Pile-driver cushions, Plain veneer, Plywood, Pulp/Paper products, Structural plywood, Utility poles
Region:	North America
Country:	United States

Numerical Values for: Pinus serotina

Category	Green	Dry	Unit
Bending Strength	7400	11600	psi
Crushing Strength (Perp.)	440	910	psi
Max. Crushing Strength	3660	7540	psi
Stiffness	1280	1750	1000 psi
Work to Maximum Load	8	9	in-lbs/in3
Shearing Strength		1380	psi
Specific Gravity	0.51	0.56	
Radial Shrinkage (G->OD)		5	%
Tangential Shrink. (G->OD		7	%
Volumetric Shrink. (G->OD		11	%

Tree & Wood Descriptions for: Pinus serotina

Product Sources	It is currently unknown whether some material from this species is available from sustainably managed, salvaged, recycled, or other environmentally responsible sources.
Tree Data	The medium-sized tree matures to a height of about 40 to 70 feet (12 to 21 m), with a trunk diameter of about 12 to 24 inches (30 to 60 cm).
Sapwood Color	The sapwood is nearly white to yellowish or orange-white. Width is reported to be variable.
Heartwood Color	The heartwood is has shades of yellow and orange to reddish brown, or light brown.
Grain	The grain is straight, but uneven.
Texture	Texture is typically medium.
Odor	The wood has a distinct, resinous odor, but no characteristic taste.
Natural Durability	Heartwood resistance to decay is rated as slight, and the wood requires to be properly protected against conditions that promote decay. Resistance to Impregnation The timber is reported to be fairly difficult to treat with preservative chemicals.
Resin Content	Pond pine is resinous.
Abnormal Wood Tissue	Reaction wood may be present.
Strength Properties	Bending strength in the air-dry condition (about 12 percent moisture content) is moderate. Crushing strength, or compression strength parallel to grain, is also moderate.

Working Properties for: Pinus serotina

Blunting Effect	Blunting effect on cutting edges is reported to be moderate.
Cutting Resistance	Pond pine is reported to have moderate cutting resistance, and high resin content tends to clog sawteeth. Saws with long pitch have been recommended.
Turning	Material containing excessive amounts of resin are troublesome to work, but the wood is reported to perform generally well in many woodworking operations including turning, planing, boring, and mortising. It responds fairly well to most machining tools to yield clean surfaces, with moderate blunting effect on cutting edges.
Gluing	The material is reported to glue without difficulty.
Nailing	Nail-holding properties are reported to be very good.
Screwing	Screw-holding characteristics are reported to be very good.
Sanding	The timber is reported to have good sanding properties.
Polishing	Most finishing treatments are reported to be fairly satisfactory.
Staining	The wood is reported to respond fairly satisfactorily to most finishing treatments.
Varnishing	The material takes stains satisfactorily.
Painting	The wood is reported to have satisfactory painting characteristics.
Steam Bending	The timber is reported to be unsuitable for steam bending applications because of its high resin content.
Response to Hand Tools	The timber is reported to respond fairly well to hand tools, with moderate blunting effect on cutting edges.

Drying for: Pinus serotina

Drying Defects	Wetwood, although infrequent in Pond pine, may cause drying degrades such as, water pockets, dark chemical stains, and honeycomb.
T/R Ratio	1.40 This indicator is more meaningful if it is used together with other drying information and actual shrinkage data in the tangential and radial directions. (Refer to the Numerical Values window).

Credits for information:
Woodworkersource.com