



Prunus serotina
Family:Rosaceae

Black Cherry

Prunus is a genus of 120 to 400 species that contain fruitwoods like cherry, plum and almond. The species are native to North America, Asia, Europe and the Mediterranean region. All species look alike microscopically. The word *prunus* is the classical Latin name for the cherry tree.

Prunus serotina-American cherry, black wild cherry, cabinet cherry, chisos wild cherry, Edwards Plateau cherry, escarpment cherry, gila chokecherry, mountain black cherry, rum cherry, southwest choke cherry, southwestern chokecherry, wild black cherry, wild cherry, whisky cherry

Distribution

Cherry is found in the eastern half of the United States, from the plains to the Atlantic Ocean and from the Great Lakes to the Gulf of Mexico. It also occurs in high elevations in Mexico.

The Tree

The tree reaches a height of 100 ft (30 m), with a diameter of 4 to 5 ft (1.2 to 1.5 m). It is shrubby under poor growth conditions and at the northern limit of its range. It does best on the rich, moist soil of the Appalachians.

The Wood

General

The sapwood is light yellow, while the heartwood is brownish with a greenish tinge, darkening upon exposure to a deep reddish brown with a golden luster. The wood has a mild, aromatic scent, but no characteristic taste. It is of medium density, firm, and strong, with a fine, uniform texture. The grain is generally straight.

Mechanical Properties (2-inch standard)

	Specific gravity	MOE GPa	MOR MPa	Compression		WML ^a kJ/m ³	Hardness N	Shear MPa
				Parallel MPa	Perpendicular MPa			
Green	0.47	9.0	55.2	24.4	2.48	88	2,936	7.79
Dry	0.50	10.3	84.8	49.0	4.76	79	4,226	11.72

^aWML = Work to maximum load.
^bReference (98).
^cReference (59).

Drying and Shrinkage

Type of shrinkage	Percentage of shrinkage (green to final moisture content)		
	0% MC	6% MC	20% MC
Tangential	7.1	5.7	2.4
Radial	3.7	3.0	1.2
Volumetric	11.5	9.2	3.8
References: 0% MC (98), 6% and 20% MC (90).			

Kiln Drying Schedules^a

Condition	Stock				
	4/4, 5/4, 6/4	8/4	10/4	12/4	16/4
Black Cherry					
Standard	T8-B4	T5-B3	T5-B2	T3-B2	T3-A1
Bitter Cherry (<i>P. emarginata</i>)					
Standard	T5-B2	T3-A1	–	–	–

^aReferences (6, 86).

Working Properties: Cherry is easy to work, finishes smoothly, and is dimensionally stable. It is easily machined. It can be sawn cleanly, turned well, and planed excellently with standard cutting angles. Screw-holding ability is good, as is gluing, except where gum streaks are present.

Durability: Rated as very resistant to heartwood decay.

Preservation: No information available at this time.

Uses: Fine furniture, printing and engraving blocks, patterns, professional and scientific instruments, piano actions, handles, wooden ware, toys, and specialty items.

Toxicity: No information available at this time.

Additional Reading and References Cited (in parentheses)

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