

BLACK WALNUT

Common Name(s): Black walnut, American walnut

Scientific Name: *Juglans nigra*

Distribution: Eastern United States

Tree Size: 100-120 ft (30-37 m) tall,
2-3 ft (.6-1 m) trunk diameter

Average Dried Weight: 38 lbs/ft³ (610 kg/m³)

Specific Gravity (Basic, 12% MC): 0.51, 0.61

Janka Hardness: 1,010 lb_f (4,490 N)

Modulus of Rupture: 14,600 lb_f/in² (100.7 MPa)

Elastic Modulus: 1,680,000 lb_f/in² (11.59 GPa)

Crushing Strength: 7,580 lb_f/in² (52.3 MPa)

Shrinkage: Radial: 5.5%, Tangential: 7.8%,
Volumetric: 12.8%, T/R Ratio: 1.4

Color/Appearance: Heartwood can range from a lighter pale brown to a dark chocolate brown with darker brown streaks. Color can sometimes have a grey, purple, or reddish cast. Sapwood is pale yellow-gray to nearly white. Figured grain patterns such as curl, crotch, and burl are also seen.

Grain/Texture: Grain is usually straight, but can be irregular. Has a medium texture and moderate natural luster.



AMERICAN WALNUT CROWN