

WALNUT



Common Name(s): Black 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): .51, .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

The 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.