

MAPPA BURL / POPLAR BURL

Common Name(s): Black Poplar, Lombardy Poplar

Scientific Name: *Populus nigra*

Distribution: Europe, western Asia, Northern Africa; planted as an ornamental in North America

Tree Size: 65-100 ft (20-30 m) tall, 3-5 ft (1-1.5 m) trunk diameter

Average Dried Weight: 24 lbs/ft³ (385 kg/m³)

Specific Gravity (Basic, 12% MC): .31, .39

Janka Hardness: 460 lb_f (2,020 N)

Modulus of Rupture: 9,230 lb_f/in² (63.7 MPa)

Elastic Modulus: 1,045,000 lb_f/in² (7.21 GPa)

Crushing Strength: 5,220 lb_f/in² (36.0 MPa)

Shrinkage: Radial: 4.0%, Tangential: 9.3%, Volumetric: 12.3%, T/R Ratio: 2.3

Color/Appearance: Heartwood tends to be a light brown. Sapwood is a pale yellow to nearly white, and isn't clearly demarcated, tending to gradually blend into the heartwood. This species also yields a unique burl that's commonly sold as Mappa or Mapa.

Grain/Texture: Grain is generally straight to slightly irregular or interlocked. Uniform medium texture with low natural luster.

