



Physical Properties and Characteristics

Type of Wood: Sugar maple / hard

Specific Gravity: .56 - .63

Modulus of Rupture (psi): 9400 - 15800

Modulus of Elasticity (million psi): 1.65 - 1.88

Work to Maximum Load (inch-lb. / cu. in.): 13.3 - 16.5

Impact Bending — height of drop causing complete failure (in.): 40 - 39

Compression Parallel to Grain — maximum crushing strength (psi): 4020 - 7830

Compression Perpendicular to Grain — fiber stress at proportional limit (psi): 640 - 1479

Shear Parallel to Grain — maximum shearing strength (psi): 1460 - 2330

Side Hardness — load perpendicular to grain (lb.): 970 - 1450

Relative Hardness (ranked by the Janka hardness rating): 1450

- 12% harder than Northern Red Oak

Relative Stability (ranked by dimensional change coefficient): .00353

- 4% more stable than Northern Red Oak

Color: Heartwood is creamy white to light reddish brown; sapwood is pale to creamy white

Durability: Dense, strong, tough, stiff, excellent shock resistance, markedly wear resistant

Workability: Density makes it very difficult to saw; sands satisfactorily

Nailing: Fair resistance to splitting; good holding ability

Finishing: Takes neutral finish well; does not stain uniformly

Flame Spread Index (ASTM-E84): 104

Smoke Developed Index (S.D.I): 157

If you have additional questions, please contact MFMA's Technical Director at 888/480-9138.

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