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The Mechanical Properties of Walnut (*Juglans regia*L.) Wood

Ramazan KANTAY, Nusret AS, Öner ÜNSAL İstanbul Üniversitesi, Orman Fakültesi, Orman Endüstri Mühendisliği Bölümü, İstanbul - TÜRKİYE Abstract : Ten sample trees obtained from the Düzce region were tested for bending, impact bending, compression, hardness, Cleavage and Shear strength. The relationships between strength and density were investigated. The results obtained were as follows: average density value 0.52 g/cm^3 . Bending strength 102.3 N/mm^2 , impact bending 0.54 kN/cm ; compression strength 38.8 N/mm^2 ; hardness (Janka), on cross section 59.2 N/mm^2 , radial section 39.3 N/mm^2 , tangential section 37 N/mm^2 ; cleavage strength, radial 0.68 N/mm^2 ; tangential 0.95 N/mm^2 ; shear strength, radial 7.9 N/mm^2 , tangential 10.1 N/mm^2 . The results were compared with the values given in the literature. Key Words : Walnut wood , Density, Mechanical properties of wood , Hardness

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