MECHANICAL PROPERTIES OF ORIENTED STRAND BOARD (OSB) FROM KELEMPAYAN SPECIES WITH DIFFERENCE RESIN CONTENT AT 650 Kg/m3

By

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ABSTRACT

MECHANICAL PROPERTIES OF ORIENTED STRAND BOARD FROM KELEMPAYAN Spp. WITH THE DIFFERENCE RESIN CONTENT AT DENSITY 650 KG/M^3

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Oriented strand board (OSB) is a multi-layered board made from strand of wood of predetermines shape and thickness together with a binder. The strands in the outer-layers a aligned a parallel to the board length or width, the strands in the center layer or layers can be randomly oriented or aligned, generally at right angles to the strand of the external layers. Kelempayan *(Anthocephalus chinensis)* has potentials for commercialize in OSB productions. Recovery of wood strands production has the high percentage (83.22%). It able recommended for commercial production of OSB. OSB from Kelempayan species is has the high value of MOE and MOR in bending test and internal bond test. The new panel product is able to improve their mechanical properties and be as a substitute to other panel product such as Medium Density Fibreboard.