

**PROPERTIES OF PARTICLEBOARDS FROM  
Oil Palm (*Elaeis Guineensis*)**

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## **ABSTRACT**

### **Properties of particleboard from Oil palm (*Elaeis guineensis*)**

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In this study, particles of Oil Palm (*Elaeis Guineensis*) were used. Phenol Formaldehyde resin was used as binder. Particleboards respectively with 7, 9 and 11% phenol formaldehyde (PF) and with unscreened particle are used. There series of target density a board were produced i.e. 500, 600 and 700 kg/m<sup>3</sup>. Thickness the board that different used i.e. 12 and 19 mm. This mixed will be made a board called particleboard after been cured by heat and pressure. The properties of this particleboard will be determined by several type of test i.e Modulus of Rupture (MOR), Modulus of Elasticity (MOE), Thickness Swelling (TS), Water Absorption (WA) and Internal Bonding (IB). The result shows that the percentage of resin used, density and thickness board are affecting the properties of the board. For the standard of evaluating this particleboard reach the value that been specified.