

**PROPERTIES OF PARTICLEBOARD FROM JUVENILE ACACIA
MANGIUM AT 800 Kg/ m³ WITH 6 %, 8 % AND 10 % UF RESIN**

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ABSTRACT

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In this study, small wood particles will be bonded with adhesive based on percentage used. Three percentage of resin are used which is called Urea- formaldehyde (UF) at 6 % , 8 % and 10 % will be mixed with the Juvenile *acacia mangium* wood particles. The mixer will be compressed at certain pressure and heat. The process compressing small wood particles with bonding adhesive is use to make a board called particleboard. Particleboard is one of the wood composite materials. The properties of particleboard will be determined by several types of board evaluation. The results show that the percentages of resin use are affecting the particleboard properties.