

**Properties of particleboard from  
Mixed species Karas (*Aquilaria species*), Kedondong (*Burseraceae species*),  
Mahang Kapur (*Macaranga Hypoleuca*) at 700 kg/m<sup>3</sup> with 8%, 10%  
And 12% resin and without wax**

**By**

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**ABSTRACT**

In this study, particles from karas (*Aquilaria species*), Kedondong (*Burseraceae species*), Mahang Kapur (*Macaranga Hypoleuca*) will mix into three percentages of Urea Formaldehyde; 8%, 10% and 12%. This blending will produced particleboard after being formed by certain pressure and temperature. Then, strength properties of the particleboard will be measured by certain type of testing; “Modulus of Rapture (MOR)”, Modulus of Elasticity (MOE)”, “Thickness Swelling TS” and “Water Absorption (WA)”. From result obtained, different percentages use for Urea Formaldehyde, will effect to the strength of particleboard. Besides that, there are many weaknesses in using mix species of particles. The weaknesses must be resolved in using this new source for production of particleboard.