

**PROPERTIES OF PARTICLEBOARD FROM *Leucaena leucocephala* AND
EFFECT OF MIXING RATIO WITH FAST GROWING SPECIES**

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In the name of Allah, The most Gracious and The Most Merciful

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ABSTRACT

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The properties of particleboard produced from *Leucaena leucocephala* and effect of mixing ratio with fast growing species using urea formaldehyde were studied. The influences of mixing particle sizes (0.5mm and 1.0mm), resin content (9%) and target board density (700 kg/m³) were studied. The particleboard was tested for the physical and mechanical properties using the European standard. The effect of mixing different fast growing species with *Leucaena leucocephala* will produced a new wood product with new properties. When two or more species mixed together, the mechanical properties of board became weaker than one species board. To overcome this weakness, more wax must be added.