

**PROPERTIES OF PARTICLEBOARD FROM LEUCAENA
LEUCOCEPHALA IN RELATION TO VARYING PARTICLE
SIZE AND RESIN CONTENT**

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ABSTRACT

PROPERTIES OF PARTICLEBOARD FROM LEUCAENA LEUCOCEPHALA IN RELATION TO VARYING PARTICLE SIZE AND RESIN CONTENT

This study on alternative of *Leucaena leucocephala* used as a raw material in order to replace the Rubberwood in manufactured of particleboard. The single particleboard with density of 700kg/mm^3 have been mixed with three kind of resin content; 8%, 10% and 12%. The particle size used is divided into two category; (0.5mm+1.0mm) and (1.0mm+2.0mm). The particleboard that has been made will test into several kind of testing. There is modulus of rupture (MOR), modulus of elasticity (MOE), internal bonding (IB), thickness swelling (TS) and water absorption (WA). They were determined according European standard (EN). All of the results have been surpassing the standard but for interior uses product only because Urea formaldehyde adhesive is only water resistant not waterproof.