

**WATER RESISTANCE PARTICLEBOARD FROM WEATHERED OIL
PALM TRUNK**

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ABSTRACT

WATER RESISTANCE PARTICLEBOARD FROM WEATHERED OIL PALM TRUNK

This study focused on alternative of weathered oil palm used as raw material in order to replace the Rubberwood in manufactured of particleboard. The three layer of particleboard with three different density 500 kg/m^3 , 600 kg/m^3 and 700 kg/m^3 will be mixed with three different resins content 7%, 9% and 11%. The particle size used are 1.0mm and 2.0mm for core and 0.5 for surface particleboard. The modulus of rupture (MOR), modulus of elasticity (MOE), internal bonding (IB) and thickness swelling (TS) were determined according to European standard (EN). All the result has failed to meet the standard requirement for particleboard.