

PROPERTIES OF PARTICLEBOARD USING 16 YEARS OLD
PETAI BELALANG (*Leucaena leucocephala*)

BY:

MOHD AZUAN BIN MOHD DAUD

NORHAIDA BT YAHYA

NOR SHUHADA BT ABDULLAH

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Abstract of final project present to the Universiti Teknologi MARA fulfill
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Advisor: Prof Madya Dr Jamaluddin Bin Kasim
Faculty : Applied Science

In this study, 8%,10% and 12% of urea formaldehyde (UF) will be mixed with the *Leucaena leucocephala* 16 years old. This mixed will be made aboard that call particleboard after cure by heat and pressure .The properties of this particleboard will be determine by several type of test . the result show that there some different of particle size, wax and percentage of resin will be effected the board properties. There were some testing that will evaluate these particleboard properties due to the required standard, such as internal bonding, bending testing (MOE) and (MOR),water absorption and thickness swelling. In conclusion, the particleboard made from *Leucaena leucocephala* is not meet the standard requirement for BSEN. Another research or another treatment should be dne continuously to find a better solution due to the problem above. In this study, particleboard that made from *Leucaena leucocephala* is not suitable to commercialize.