

UNIVERSITI TEKNOLOGI MARA

**EFFECT OF RESIN CONTENT AND SPECIES
RATIO ON THE PROPERTIES OF
PARTICLEBOARD
FROM LEUCEANA SPP AND RUBBERWOOD**

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ABSTRACT

This study focus on alternative species to produce particleboard with the targeted density of 700kg/m^3 . *Leucaena* was mix with rubberwood in order to counter depleting supply of rubberwood. The main objective of this study is to determine properties with different percentages of resin content and ratio of species that could be used to determine the strength and durability of board. The particleboard ratio between the species is 30L:70R/W, 50L:50R/W, and 70L:30R/W for 8% and 12% of UF resin. The modulus of elasticity, modulus of rapture, internal bond and thickness swelling of particleboards were determined according to British Standards Institution (BS EN Standard). All result had achieved a standard except thickness swelling.

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