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

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Thesis submitted in fulfillment for the requirements of the

Bachelor of Science (Hons.) in Furniture Technology

Faculty of Applied Sciences

May 2011

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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.

ACKNOWLEDGEMENTS

Bismillahirrahmanirrahim...

Alhamdulillah. I would likes to express my deepest appreciation and sincere gratitude to my advisor, Dr. Wan Mohd Nazri bin Wan Abd. Rahman for his willingnes for his willingness to contribute his knowledge, time and effort till I complete my final project.

A lot of appreciation especially to Professor Dr. Jamaluddin Bin Kasim because give me guideline in this project. Thanks to Mr. Sardey and Mr Shahril because of their commitment and help during my project. All the kindness you've showed I will remember for rest of my life. Not forget to my entire member especially my housemates who always give support and commitment.

Last but not least special wish goes to my beloved family for their moral and financial support. May Allah bless us all. Last but not least special thanks to my family for their support and prays.

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