

UNIVERSITI TEKNOLOGI MARA

PROPERTIES OF PARTICLEBOARD FROM *ACACIA MANGIUM* (MATURE)

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LIST OF TABLE

Table	Page
2.1 The export of particleboard	5
2.2 Density of <i>Acacia Mangium</i>	13
3.1 Hot press time and pressure	32
4.1 The mechanical and physical properties of particleboard	41
4.2 Analysis of variance on the effect of particle size, resin content and wax addition on the particleboard properties	43
4.4 Summaries of the correlation analysis	51

LIST OF FIGURES

Figure	Page
3.1 Treatment used in study	18
3.2 Cutting pattern of board for MOE, MOR, IB, WA and TS	33
3.3 Bending test	35
3.4 Internal bonding test	36
4.1 Particle screen analysis	39
4.2 Bulk density	40
4.3 Effect of particle size for MOR, MOE, and IB	44
4.4 Effect of particle size for WA and TS	45
4.5 Effect of resin content for MOR, Moe, and IB	47
4.6 Effect of resin content for WA and TS	49
4.7 Effect of wax addition for MOR, MOE, and IB	50
4.8 Effect of wax addition for WA and TS	51

ABSTRACT

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In this study, three percentage of urea formaldehyde (UF) that are 8%, 10% and 12% will be mixed with the particle size that are 0.5mm, 1.0mm and 2.0mm. This mixed will be made a board called particleboard after been cured by heat and pressure. The properties of that particleboard will be determined by several types of test such as bending test, internal bonding, water absorption and thickness swelling. The result shows that the percentages of resin content, wax and particle size are affecting the properties of the board. For the standard of evaluating that particleboard reach the value that been specified. This particleboard is suitable as a raw material in wood base product.