

PROPERTIES OF PARTICLEBOARD FROM BULUH MINYAK

(Bambusa vulgaris)

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TABLE OF CONTENTS

	Page
APPROVAL SHEET	ii
DEDICATIONS	iii
CANDIDATE'S DECLARATION	iv
ACKNOWLEDGEMENTS	v
TABLE OF CONTENTS	vi
LIST OF TABLES	ix
LIST OF FIGURES	x
LIST OF PLATES	xi
LIST OF ABBREVIATIONS	xii
ABSTRACT	xiv
ABSTRAK	xv
CHAPTER 1 INTRODUCTION	1
1.1 Background of study	1
1.2 Research problem	4
1.3 Justification	6
1.4 Significance of Study	6
1.5 Objectives of Study	7
CHAPTER 2 LITERATURE REVIEW	8
2.1 Raw Material for Malaysian Particleboard Industry	8
2.2 Non – Wood Species	11
2.2.1 Bamboo Species	11
2.2.1.1 <i>Bambusa vulgaris</i>	12
2.2.2 Palm species – oil palm	13
2.3 Particleboard industry	14
2.3.1 Definition of Particleboard	14
2.3.2 Malaysian Scenario	15
2.3.3 Manufacturing Process of Particleboard	16
2.3.4 Properties of Particleboard	17
2.3.5 Uses of Particleboard	18
2.4 Resin	18
2.4.1 Phenol formaldehyde	19
2.5 Effect of Properties on Particleboard	20
2.5.1 Physical Properties	20
2.5.2 Mechanical Properties	21

CHAPTER 3 MATERIALS AND METHODS

3.1	Flow Chart of Methodology	22
3.1.1	Material Preparation	23
3.2	Board Manufacture	23
3.2.1	Board Making	23
3.2.2	Chipping	24
3.2.3	Screening	24
3.2.4	Glue Mixing and Blending	25
3.2.5	Mat Forming	26
3.2.6	Cold Pressing	26
3.2.7	Hot Pressing	27
3.2.8	Conditioning	28
3.2.9	Trimming and Sizing	29
3.3	Sample Cutting	29
3.4	Board Evaluation	30
3.4.1	Determination of Bending Strength (MOR and MOE)	30
3.4.2	Determination of Internal Bond	31
3.4.3	Determination of Water Absorption	32
3.4.4	Determination of Thickness Swelling	32
3.5	Statistical Analysis	33
3.6	Experimental Design	34

CHAPTER 4 RESULTS AND DISCUSSION

4.1	Properties of Particleboard	35
4.2	Statistical Analysis	37
4.3	Effect of Resin Content	38
4.4	Effect of Particle Size	41

ABSTRACT

PROPERTIES OF PARTICLEBOARD FROM BULUH MINYAK

(Bambusa vulgaris)

Particleboard is a structural material made of wood fragments, such as chips or shavings, that are mechanically pressed into sheet form and bonded together with resin under high temperature and pressure. The effects of different resin content (7% and 9%) and particle size (1.0 mm and 2.0 mm) were determined. Board with 2.0 mm particle size and 9% of resin content gave superior strength. All the boards reached the minimum requirement of Malaysian Standard (MS 1036:2006) but IB value did not pass such standard. For resin content effect, as resin content increased, strength of mechanical properties also increased. For physical properties, as resin content increased, TS value decreased but WA value increased. Significantly effect of particle size was exhibited for TS MOR, MOE, and IB.