

**MECHANICAL AND PHYSICAL PROPERTIES OF WOOD  
PLASTIC COMPOSITE FROM OIL PALM FROND**

**BY**

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## **TABLE OF CONTENT**

<b>CONTENTS</b>	<b>PAGE</b>
<b>ACKNOWLEDGEMENT</b>	iv
<b>TABLE OF CONTENTS</b>	vi
<b>LIST OF TABLES</b>	ix
<b>LIST OF PLATES</b>	x
<b>LIST OF FIGURES</b>	xi
<b>LIST OF GRAPH</b>	xii
<b>LIST OF ABBREVIATION</b>	xiii
<b>ABSTRACT</b>	xiv
<b>ABSTRAK</b>	xv
<b>CHAPTER 1 INTRODUCTION</b>	1
1.1 Wood Plastic Composite	1
1.2 Problem Statement	2
1.3 Justifications	2
1.4 Objectives	3
<b>CHAPTER 2 LITERATURE REVIEW</b>	4
2.1 Oil Palm	4
2.1.1 History of Oil Palm	4
2.1.2 Availability of Oil Palm in Malaysia	4
2.1.3 Distribution of Oil Palm	6
2.2 Wood Plastic Composite	7
2.2.1 Definition of Wood Plastic Composite	7
2.3 Properties of Wood Plastic Composite	8
2.3.1 Appearance of Wood Plastic Composite	8
2.3.2 Moisture Content	8
2.3.3 Density	8
2.3.4 Mechanical Properties	9

2.4 Polypropylene	10
2.4.1 Definition of Polypropylene	10
2.4.2 Chemical and Physical Properties	10
<b>CHAPTER 3 MATERIALS AND METHODS</b>	12
3.1 Wood Plastic Composite Making Process	12
3.2 Material Preparation	13
3.2.1 Forest (Oil Palm)	13
3.2.1 Oil Palm Frond	13
3.2.3 Narrow Band saw	14
3.2.4 Chipper	14
3.2.5 Flakers	15
3.2.6 Air dry	15
3.2.7 Screening	16
3.2.8 Grinder	16
3.3 WPC Production	17
3.3.1 Mixer	17
3.3.2 Crushing or Making Pallet	18
3.3.3 Moulding	18
3.3.4 Hot Press	19
3.3.5 Cold Press	20
3.3.6 Wood Plastic Composite (WPC)	20
3.3.7 Sample Cutting	21
3.3.8 Testing	22
3.3.8.1 Testing Method	22
3.3.8.2 Mechanical Properties	23
3.3.8.2.1 Bending Test	23
3.3.8.2.2 Water Absorption and Thickness Swelling Test	23

## **ABSTRACT**

### **MECHANICAL AND PHYSICAL PROPERTIES OF WOOD PLASTIC COMPOSITE FROM OIL PALM FROND**

The properties of wood plastic composite from oil palm frond with addition of different amount of pressure and temperature. Temperature is use is 180°c; 195°c and 210°c while pressures are use are 1000 psi and 2000 psi. Bending test, water absorption and thickness swelling test had been carried out to determine the physical and mechanical properties and hence determine the suitability of oil palm frond to be used as raw material in wood plastic manufacture. Manufacture of wood plastic composite from oil palm frond also is to reduce problem of waste of oil palm frond that effect to environment. From the test done, it show that temperature and pressure has no significant but give effect to properties of wood plastic composite.