

PROPERTIES OF WOOD PLASTIC COMPOSITES FROM  
OIL PALM EMPTY FRUIT BUNCH FIBERS

VERONICA GISIN

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**By**

**VERONICA GISIN**

## **ABSTRACT**

Wood Plastic Composites (WPC) was produced using unscreened fibers from oil palm (*Elaeis guineensis*) empty fruit bunch (EFB) fibers, mixed with PP. The effects of filler loadings at 10%, 30% and 50% was studied. The mechanical and physical testing was carried out according to American Society of Testing and Materials (ASTM). The mechanical properties such flexural modulus (FMOE) and tensile strength (TMOR) decreases as the amount of filler loadings increases. The physical properties, thickness swelling (TS) and water absorption (WA) increased at higher filler loadings. EFB fibers can be used as filler to produce WPC.