

***THE INFLUENCE OF DIRECTION AND MASS FIBER OF
TKKS FIBER ON THE STRENGTH OF IMPOSITION OF
THERMOSET COMPOPOSITE MATERIAL***

Student Name : Rendy
NIM : 2204161072
Lecture Mentor : Syahrizal, MT

ABSTRACT

Oil palm empty bunches (TKKS) are industrial solid waste, oil palm empty bunches which are currently only thrown away or burned, causing environmental pollution. One of the efforts to overcome this problem is to use it for the manufacture of new materials. In this study, the variations in the direction of the fibers used were 0 °, 30 °, 45 ° 60 ° and 90 ° with variations in the mass of the fibers used in this study, namely 5%, 10% and 15% of the Empty Oil Palm Fruit Bunch. From the results of data processing on OPEFB fiber composite material, the highest impact price (HI) was found in the 0 ° direction specimens with a percentage of 15% OPEFB fibers of 0.330 J / mm² and the smallest impact price (HI) was found in 90 ° direction specimens with a percentage of 5% OPEFB fibers. amounting to 0.075 J / mm² with the Getas fault form.

'Keywords: *Oil Palm Empty Bunches Fiber, Composite Impact Test, Experimental Method.*