

Tensile Properties Of Mengkuang Leaf Fiber Reinforced Polyester Composites

Prepared by: Lingaiswaran S/O Balasupramaniam

ABSTRACT

This project report provides research details done in the finding for Tensile Properties of Mengkuang (Pandanus Tectorius) Fibre Reinforced Polyester Composites. Natural fibers have presently enticed far attention from the logical and researcher area for use as support in composite materials. A colossal abundance of usual fiber has enhanced the attention of researcher in discovering new value added requests and additionally as a good commercial returns for cultivation. The effects of different fiber loading of short Mengkuang fiber and long Mengkuang leaf composite have been studied. From this experiment data have proved when the increasing the fiber loading will decreasing the tensile strength and increase in elasticity modulus of the composite. There are numerous factor effecting the mechanical properties of natural fiber reinforced polymer composites which are the composition ratio, hydrophilic tendency and method use. The porosity factor of the composite will influence the strength of the fiber composites. The specimens are prepared using hand lay-up techniques follow ASTM D3039 standard.