

Tensile Properties Of Pineapple Leaf Fiber Reinforced Polyester Composites

Prepared by: Mithran Reddy

ABSTRACT

This report introduces research details on how natural fiber helps to produce better and eco-friendly parts. These natural fibers have presently better than any other material that are currently present. A huge abundance of natural fiber has caught the attention of researcher in discovering new value that is highly available and has good commercial returns for cultivation. The effects of different fiber percentage of pineapple leaf fiber (PALF) composite have been studied. From this experiment data that is gathered and have proved that the increasing the fiber percentage will decreasing the tensile strength and young modulus of the composite. There are many factor that will affect the mechanical properties of natural fiber reinforced polymer composites. The porosity factor of the composite will influence the strength of the fiber composites. This whole project specimens are prepared using hand lay-up techniques which follows ASTM D3039 standards for the INSTRON machine.