

EVALUATION OF MECHANICAL AND MICROSTRUCTURE PROPERTIES OF HYBRID FIBRE REINFORCED POLYMER COMPOSITE MATERIAL

Mr.M.S.Heaven dani M.E.,#1, U.Arun kumar#2, N.Hariharan#3, C.Manikandan#4, N.Richard ramesh babu#5 ,
Department Of Mechanical Engineering,
Velammal Institute Of Technology,
Ponneri,Panchetti post-601204,
Tamilnadu, India,

Today in automobile field we were meet lot of Issues in current scenario. Vehicle mileage inversionally proportional to their weight. So we want to reduce vehicle weight as well increase their performance. This seems to be a very important role and probably that is not satisfy existing material so we need new material for high performance as well less density. Natural and synthetic Fibers have an outstanding potential as reinforcement in thermoplastics. The objectives of this experiment are to evaluate the suitability of producing hybrid composites. In this project work hybrid natural fiber reinforced materials such as palm and glass fiber reinforced polymer composite material with epoxy resin has been used for fabrication new material. Investigation of mechanical and microstructure properties of composite material.