

The Effects of Wood Sawdust Loading on Tensile and Physical Properties of Up/Pf/Wsd Composites

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Abstract

Wood sawdust fiber is one of the viable by-products which turn composites into something useful and industrially applicable in manufacturing industries. In this study, the UP/PF composites with varies ratio of wood sawdust fiber (2, 4, and 6 phr) were prepared by using casting technique and the composite specimens were tested using universal testing machine (UTM). The results showed that the wood sawdust fiber can improve mechanical properties of UP/PF/WSD composites efficiently. For the best tensile properties of UP/PFF/WSD composites, the appropriate amount of wood sawdust fiber was 6 phr. The water absorption and oven aging properties also have been studied which the results shows positive indication towards UP/PF/WSD performance.