POLYPROPYLENE PLASTIC COMPOSITE FROM RESAK

By

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ABSTRACT

This is a study of producing thermoplastic composite from wood waste planning or shaving of Resak (*Vatica Species*).Thermoplastic composite from Resak followed from the size of sawdust with mesh 40 and the percentages of wood dust are 10%, 30% and 50%. Test such as tensile, bending and water absorption are carried out to determine either wood waste shaving from Resak is suitable as filler in the making of thermoplastic composite. The results showed that with 10% of wood dust is most suitable compared to the 30% and 50% of wood dust, since it has the highest tensile and bending testing. The results from water absorption give the lower value for mesh 40 with 10% of wood dust. In generally, using 10% of sawdust from wood waste shaving is the most suitable quantity for being mixing with polypropylene to make thermoplastic composite.