

Strength and Impact Analysis of Hybrid Fiber Composite from Palm Fiber and Rice Husk Fiber

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ABSTRACT

Current technological developments continue to be improved, not denied also in the field of materials science engineering. In this field continuous research is conducted to obtain new materials with better mechanical properties. Fiber composites are a continuously developed field, since fiber composites have lighter advantages, as well as having mechanical properties per mass of species better suited to metal. In this study using fiber hybrid composite fiber palm fiber and fiber husk fiber. The purpose of this study was to determine the strength and toughness of hybrid fiber composites. This study used a variation of resin and catalyst composition, and the result of this study is the energy absorbed by composite hybrids at a 99%: 1% greater ratio with a value of 5,164 Joules. The yield of tensile strength also states in the comparison of 99%: 1% has the greatest value with a value of 23 N / mm².

Kata kunci: *Hybrid Fiber Composite*, Palm Fiber, Rice Husk Fiber, Tensile Strength, dan Impact Test.