

Effect of Banana fibers species : Banana (Musa (ABB), Musa balbisiana Colla, and Musa (AAA)) on Physical and Mechanical Properties of Epoxy Resin composites

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The aim of this work is to study the effect of banana fibers three species : Musa (ABB)(Kluai Nammwan: A1), Musa balbisiana Colla (Kluai Tanee: A2) and Musa (AAA) (Kluai Hom thong: A3) on physical and mechanical properties of banana fiber reinforced epoxy resin composites. The finding of experiment showed that addition of B1 and B2 improves tensile strength and impact strength respectively, while fiber all species decreases flexural strength, which were lower than epoxy resin. The highest density (1.18 g/cm³) was obtained from composites of B2. For water absorption showed higher water resistance of the composites. The study confirms that the physical and mechanical properties of the composites are varies with species of the banana fibers.

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