



Analysis of Mechanical Properties of Different Bamboo species by using existing Adhesives

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Abstract

This study comparatively evaluated the mechanical properties of different bamboo Species by using existing Adhesive which is available in market. The properties such as Tensile strength, compressive strength, shear stress and bending stress were tested on 40 Specimens of bamboo species with different adhesives. The test was carried out on Universal testing machine and bending machine. Ten specimens were prepared with the lap joint for testing. The different adhesives are reinforcing with the bamboo species for 20 days. It was observed that the mechanical properties of bamboo species are found to be better in the case of **Asian Paints (Loctite touch)** adhesive with some loading.

Keywords: Mechanical properties, Specimen, Adhesive, and Tensile test, Compression test, Shearing test and Bending test, Reinforce, Interfacial bonding.