THE EFFECT OF HEAT TREATMENT TO MECHANICAL PROPERTIES OF BAMBOO PETUNG (Dendrocalamus asper) AND ORI (Bambusa arundinacea)

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Abstract

Bamboo is a plant clumps with a round rod shape, hollow, hard and high. Bamboo itself is a plant in the form of giant grass, not trees like most other plants. Bamboo has a low durability, easily attacked by fungi and insects. Not durable nature of the above remain unchanged when the bamboo is processed into a product. For that need to be preserved for their use can last longer, better resistance to environmental as well as resistance to organic attacks (such as insects and fungi). Pickling can be done with the process of drying and soaking.

In this research, the drying in various temperature and time is used for bamboo preservation bamboo. The temperature used was 50°C, 100°C, 150°C, 200°C, dan 300°C. The time used 1hours and conducted Holding Time. The result of bending test bamboo ori 196,60 MPa and bamboo petung 169,71 MPa.

Keywords: bamboo, DTA TGA, bamboo ori, bamboo petung, heat treatment.