TESTING THE STRENGTH OF SAGO BARK FOR WOODEN SHIP MATERIALS USING A TENSILE TEST

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ABSTRAK

Users of wood in the construction of wooden boats are very worried because of the limitations of the wood. Therefore, a solution is needed to overcome these problems by replacing materials made from composite materials and other alternatives. In this test or research, an analysis of the strength of the sago bark is carried out so that later it can be used as a substitute for wood in the manufacture of wooden ships. In the process of this research, researchers took two samples of tensile testing, namely woven roving outside and woven roving inside by using Q Bone Epoxy glue testing the shape and size of the specimen according to the ASTM D638 standard. The test results obtained sago husk with a stress value of 137.712 N/mm², strain 0.0524 N/mm², elasticity 3116.576 N/mm², yield stress 9.956 N/mm², elogation 5.2 N/mm².

***Keywords** : Sago Skin, Woven Roving, Material, Tensile Test*