

PROPERTIES OF PAPER FROM PETAI
BELALANG (*Leucaena leucocephala*) BY USING
SODA PULPING

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ABSTRACT

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In this study, we have made 3 differences of beating revolutions 5000, 10000, and 15000 as variables and 0 beating revolution as a control. The species we used for Soda pulping is Petai belalang (*Leucaena leucocephala*). The purpose of this study is to make sure whether the Petai Belalang species are suitable or not in order to produce paper using Soda Pulping and to study the mechanical properties of paper at different beating revolution. The MK digester is used for Soda cooking and the active alkali (AA) is 17%. Several types of testing using TAPPI Standard will determine the properties of paper. After the testing, the results show the properties of paper according to the increasing of beating revolution. There were testing that will evaluate the paper properties such as tensile testing, bursting testing, tearing resistance testing and folding endurance testing. From the study, it was shown that the Petai belalang are suitable for papermaking, which is good for printability. Increasing the beating revolution will also increase the mechanical properties of paper.