

ANALYSIS OF THE WEAR RATE OF BRAKE LINING WITH PALM FIBER COMPOSITE REINFORCEMENT

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ABSTRACT

Brake is one of the components of a motorcycle that functions to slow or stop the motorbike comfortably. So the researcher wants to know the wear rate of the motorcycle brake pads by using environmentally friendly composition materials with several variations in the composition of the material. The materials used in this study were palm fiber, resin with hardener as hardener. The manufacture of brake pads is obtained by mixing the pseudo materials and printing it for several days so that it hardens. The tests carried out include the wear test, the brake lining material is tested for wear with variations in the value of the material content presented in the test flow chart. The data obtained from the test of brake lining wear rate is the largest with the composition of palm stem fiber 75% resin 25%, with a value of 4.16×10^{-6} gram/mm² seconds, while the lowest wear rate is on the composition of palm fiber fiber 60% resin + hardener 40% with a value of 6.94×10^{-7} gram/mm² seconds

Keywords : *brake linings, polymer composite, wear testing.*