

## Proses manufaktur dan uji mekanis knalpot komposit polimer hybrida yang diperkuat serat limbah batang kelapa sawit untuk sepeda motor jenis Suzuki satria FU 150 cc / Parulian Siagian, Miduk Tampubolon, Francis Silaen

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Abstrak

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Utilization of palm oil wastes such as palm oil rods to become new materials could be an alternative to making composite materials using oil palm stem powder boosters. The palm oil rod is processed to be powdered and mixed with polyester resin for subsequent polymer composites. Then the material is used as material for the manufacture of motorcycle exhaust. The purpose of this study was to find out a good mixed formulation in the manufacture of motorcycle exhaust with polymer composite material reinforced by palm stem powder, knowing the process of making with polymer composite material reinforced powder of palm stem, and making exhaust polymer composite reinforced coconut powder palm oil. Motorcycle exhaust is made using press printing method. From the research results obtained a good composition in making motorcycle exhaust is 90% resin and 10% oil palm stem powder. During the hardening process the resin mixture and oil palm stem powder occur in temperature rise due to the resin and catalyst reaction up to 151 ° C and it takes 3 minutes for the composite mixture to fully harden. By using this waste of palm oil stem got composite exhaust product that is lighter 1,2 Kg compared with exhaust manufacer (conventional).