

**MANUFACTURING OF THERMOPLASTIC COMPOSITE FROM
KARAS (*AQUILARIA MALACENSIS*)**

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ABSTRACT

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This is a research for producing thermoplastic composite from Karas (*Aquilaria Malacensis*) wood dust and combine with polypropylene. The testing are to determine the suitability of combination of Karas wood dust and polypropylene to produce thermoplastic Tests are including bending test, tensile test, water absorption and thickness swelling test. These samples are followed from 10%, 30% and 50%. From the test had been done, the result shows the 10% of wood dust uses is more suitable compare with other two percentages added with pp to produce thermoplastic. Result for thickness swelling and water absorption show the 10% got the lower absorb .The 10% of wood dust is more suitable and flexible to make a quality of thermoplastic.