

THERMOPLASTIC COMPOSITE FROM KARAS (*Aquilaria Malacensis*)

By

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ABSTRACT

THERMOPLASTIC COMPOSITE FROM *AQUILARIA MALACENSIS* (CONTROL)

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The research for thermoplastic composite from *Aquilaria malacensis* was done using the sawdust of *Aquilaria malacensis*. The board was tested for bending, tensile and thickness swelling and water absorption. Thermoplastic composite from *Aquilaria malacensis* was manufactured from 10%, 30%, and 50% filler loadings using sawdust from *Aquilaria malacensis*. The results showed that 10% of sawdust of *Aquilaria malacensis* gives good strength properties as compared to 30% and 50%. The thickness swelling (T/S) and water absorption (W/A) showed 10% filler loading give lower results than 30% and 50% sawdust.