THERMOPLASTIC COMPOSITE FROM *ANTHOCEPHALUS CHINENSIS*

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ABSTRACT

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This is a study of producing thermoplastic composite from *Anthocephalus chinensis*. Tests such as tensile, bending, thickness swelling and water absorption are carried out. *Anthocephalus chinensis* is more comfortable in making thermoplastic composite. Thermoplastic composite from *Anthocephalus chinensis* followed from unscreened and screened with mesh 40 and 60 and the percentages of wood dust are 10%, 15% and 20%. The results showed that mesh 40 with percentage 10% of wood dust of *Anthochephalus chinensis* are most suitable. This is because from tensile and bending testing showed that the value is higher. Using more polypropylene (PP) give good result. The results from thickness swelling and water absorption give the lower value to the 10% with mesh 40. Generally, using the mesh 40 of 10% of *Anthocephalus chinensis* is the most suitable quantity for mix with polypropylene (PP) to make thermoplastic composite.