

**UNIVERSITI TEKNOLOGI MARA**

**PROPERTIES OF THERMOPLASTIC COMPOSITE  
USING SESENDOK AND KELEMPAYAN  
SAWDUST WITH DIFFERENT PERCENTAGE OF  
POLYPROPYLENE**

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# PROPERTIES OF TERMOPLASTIC COMPOSITE USING SESENDOK AND KELEMPAYAN SAWDUST WITH DIFFERENT PERCENTAGE OF POLYPROPYLENE

## ABSTRACT

This study provides mechanical and physical properties of wood plastic composite from Sesendok and Kelempayan. In this study, polypropylene was used due to the high curing temperature and high strength. The effect of different percentage of 40 mesh sesendok and kelempayan sawdust such as 10%, 30%, and 50% were performed. Then, the characteristics of the water absorption rate, MOE, MOR, and tension strength were studied. From the study, it showed that different species of wood plastic composite give different effect on mechanical and physical properties.

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