

**UNIVERSITI TEKNOLOGI MARA**

**POTENTIAL OF COCONUT SAWDUST AS A NEW  
MATERIAL FOR FURNITURE PRODUCT**

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## **ABSTRACT**

The increase in waste production from agricultural waste and plastic (polypropylene) has contributed to various environmental problems. It has attracted scientists of in new ideas to solve this problem. Alternatives to this problem, the wood plastic composite of coconut fiber sawdust and plastic (polypropylene) are produced. 40 mesh sizes used to obtain a uniform size of coconut fiber sawdust. The ratios of coconut fiber sawdust mixed with plastic composites are also reviewed by the coconut fiber sawdust (10% and 30%). Then, the characteristics of the water absorption rate, flexibility, and tension strength were studied. Samples of wood plastic composites from coconut fiber were compared with other two species which are Sesendok and Kelempayan. From the study, the higher filler loading, will decrease the strength of wood plastic composite.

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