# THERMOPLASTIC COMPOSITE FROM RESAK SAWDUST (UNSCREEN) USING POLYPROPYLENE AS MATRIX

By

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#### ABSTRACT

The study of the present invention for producing a polypropylene thermoplastic composite composition foam comprises the steps of adding and mixing 10 %, 30% and 50% weight of Resak sawdust unscreened with polypropylene. From the thermoplastic manufactured, focus of study to suitability of Resak as filler in manufacturing thermoplastic through determine the mechanical and physical properties each board produced. Based on the result, the strength of thermoplastic increase when decrease percentage of filler (Resak sawdust). Water absorption result same with strength properties. Resak sawdust (unscreened) is suitable to make filler in manufactured thermoplastic composite depend own my result.