

Manufacture Of Thermoplastic From MDF Waste

**By
Siti Sabariah Binti Mat Hassan**

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Industries, Faculty Applied Science, University Technology Mara.**

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ABSTRACT

Research for thermoplastic composite manufacture from MDF waste has been done. MDF waste was selected as a main raw material that is found from Robin MDF Sdn. Bhd. Polypropylene was used as a boulder between MDF waste and used in the thermoplastic composite manufactured. The high strength of MDF is achieved by the addition of a synthetic resin binder. The typical density range of 660-860 kg/m³ for MDF overlaps the 560-800 kg/m³ range for the higher density grade of medium board but the resin binder added to MDF gives it a major strength advantage over medium board. 5%, 10% and 15% MDF waste has been choosing for this research. The tests that already done in the research were bending, tensile and the immersion test. As a result, 5% MDF waste is more suitable. It refers to the result at higher bending, tensile and the immersion test. Therefore, as a result, details research about MDF waste should be carry out, which is can increase more uses in wood industries.