PROPERTIES OF ORIENTED STRAND BOARD (OSB) FROM MIX ACACIA AND SESENDUK AT 5% RESIN CONTENT WITH DENSITY OF 600 KG/M^3

By
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Final paper Project Submitted in Fulfillment of the Requirement for the Diploma in Wood Industries in the Faculty of Applied Science Universiti Teknologi Mara

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Oriented Strand Board (OSB) is one of wood composite panel that have most similar strength properties with plywood. The purpose of this study is to determine the strength properties of OSB made from mix Acacia mangium and Endospermum diadenum. The strength properties was include Modulus of Elasticity (MOE), Modulus of Rupture (MOR), Internal Bond (IB), percentage of thickness swelling, and also percentage of water absorption. This study was made to determine suitability mix A. mangium and E. diadenum in the production of OSB. This trial using 5% resin content with density of 600 kg/m^3 is to determine and identify the strength properties to make comparable with European Standard (EN 310) whether suitable to commercialize it or not.