

**EFFECT OF RESIN CONTENT AND BOARD DENSITY ON  
YAMANI ( *Gmeliana arborea* )**

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## **ABSTRACTS**

### **EFFECT OF RESIN CONTENT AND BOARD DENSITY ON YAMANI**

**( *Gmeliana arborea* )**

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Oriented Strand Board ( OSB ) is one of many wood composites. The objectives for this study are to determine the mechanical and physical properties of OSB with different density from this species . Besides , to study the effect of density and resin content of the OSB properties . The testing on the board are bending strength include Modulus of Rupture ( MOR ) and Modulus of Elasticity ( MOE ) , internal bonding and thickness swelling . Also , compare the strength between different density . The result of these specimens will be compared to the minimum requirement of European Standard ( EN 300).This study is using 10 % of resin urea formaldehyde that act as binder between strands and the target density is  $700\text{kg /m}^3$  ,  $600\text{ kg /m}^3$  and  $500\text{ kg/m}^3$  .