

B26

In the name of GOD

Mechanical Properties of Epoxidized Oil Heat Treated Eucalyptus Wood

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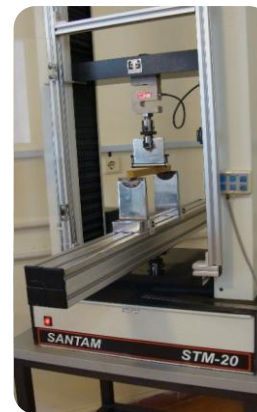
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SO 150
ESO 150

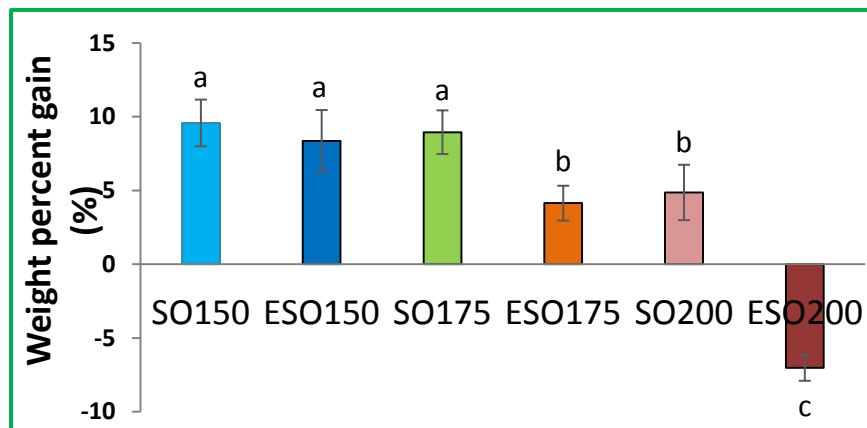
SO 175
ESO 175

SO 200
ESO 200

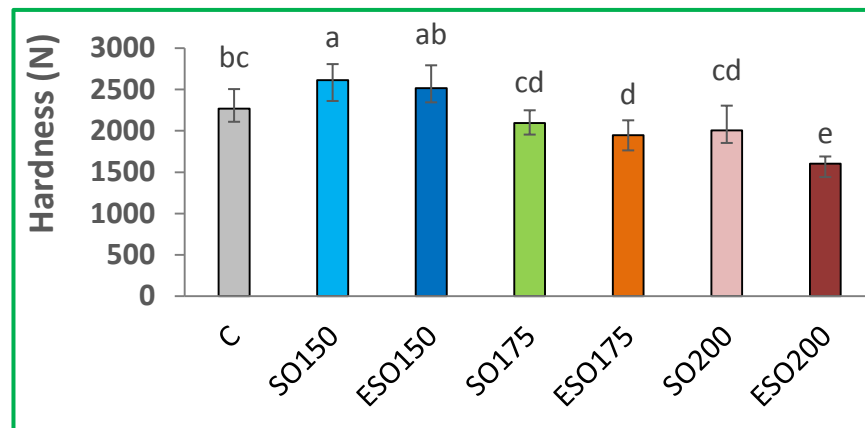


- Wood sources in Iran
- Eucalyptus wood
- Oil heat treatment/ Soybean oil
- Epoxidized oil heat treatment

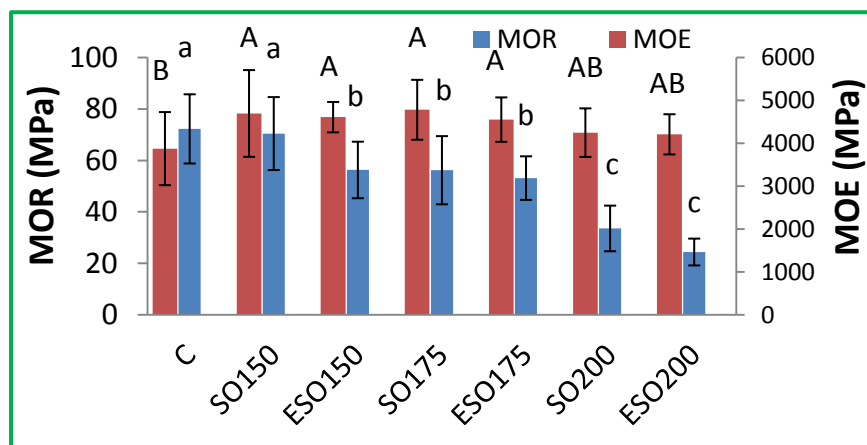
WPG and Mechanical properties of oil heat treated Eucalyptus wood



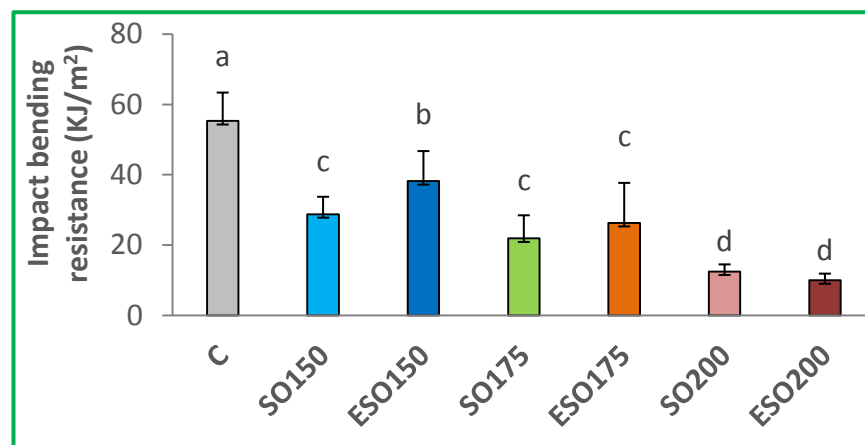
- Reduction of WPG with increasing temperature (T)
- Reduction is significant in ESO treatment at higher T



- Increased of hardness at 150°C
- Then decreased of hardness with increasing T



- Decreased of bending resistance (MOR) at higher T
- Reduction was more significant in ESO150



- Sharp reduction in impact bending resistance.
- ESO150 has higher impact bending resistance

Thank you for attention

