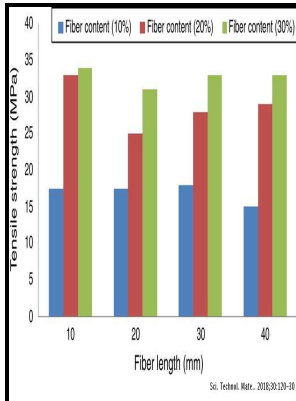


# Principles and impacts of moisture uptake in wood plastic composite materials

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-Principles and impacts of moisture uptake in wood plastic composite materials

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## Moisture effects on the mechanical behavior of fir wood flour/glass reinforced epoxy composite :: BioResources

None of the cycles, however, were associated with significant reduction in either modulus of elasticity or modulus of rupture.

## Effects of moisture and temperature cycling on material properties of a wood/plastic composite

During the last few years, significant progress has been made in a new research direction in the field of composite materials, which refers to the use of different materials in order to reduce costs and weight.

## Effect of different shell materials on the mechanical and thermal properties of core

To initiate and accelerate the polymerization process, the hardener agent Epolam 2014 manufactured by Axson Technologies was mixed with the Epolam 2015 epoxy resin before adding the wood flour.

## Material resistance of flame retarded wood

There was good interfacial compatibility between the virgin HDPE shell and HDPE-based core layer that forms an effective protection for the core layer of the CSHDPE sample and results in excellent impact toughness. Polyethylene PE, polypropylene PP, and polyvinylchloride PVC are the most commonly used plastic matrices in the manufacturing of WPCs. The physical and chemical characteristics of the epoxy resin in the liquid state are shown in Table 1, while the mechanical characteristics of the cured epoxy resin without the reinforcements are shown in Table 2 Certificate of Epolam 2015 epoxy resin 2006.

## Influence of repeated injection molding processing on some mechanical and thermal properties of wood plastic composites :: BioResources

Table 3 presents the results of the impact strength, which shows that the shell layer played an important role on the impact property of the BPCs.



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