

Review of: "Investigation of Mechanical Properties of Sisal Fiber and Sugar Palm Fiber Reinforced Hybrid Composites"

Vikas Mehta¹

¹ Keimyung University

Potential competing interests: No potential competing interests to declare.

1. Could you please clarify the reasons for using sisal and sugar palm fibers as reinforcement materials in hybrid composites? Additionally, could you explain why these natural fibers are considered highly promising for composite applications and how their properties contribute to the overall characteristics of the composites?
2. Could you please provide me with an explanation of the fabrication process for hybrid composites? Specifically, I'm interested in the ratios of sisal fiber to sugar palm fiber used and the total fiber loading of 30 wt%. Additionally, can you explain the advantages of using the compression molding technique in this context?
3. How were the tensile, flexural, impact, and water absorption tests carried out? Could you provide more details on the experimental setup and conditions and which specific mechanical properties were evaluated?
4. Was any specific parameter held constant in the panel configuration for comparative purposes? If so, the author should modify their manuscript to reflect this.
5. Include a detailed description of the fiber extraction process from sisal and sugar palm to enhance reader comprehension. Add a figure illustrating the compression molding setup. Provide a proper justification for the results obtained, supported by validation from existing literature. Incorporate images of the setups for the various tests conducted in the study. Include fractography analysis using SEM (Scanning Electron Microscopy) in the study. Outline potential areas for future work arising from this study.
6. The abstract, introduction, and conclusion need to be modified.
7. Remove any references unrelated to the study and mark them as "Reference use only."