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

Veerappan Sathish Kumar[1]

1 National Institute of Technology Puducherry

Potential competing interests: No potential competing interests to declare.

The manuscript deals with the investigation of the mechanical properties of sisal fiber- and sugar palm fiber-reinforced hybrid composites. Mechanical properties, which include splitting tensile strength and flexural strength, were investigated in addition to water absorption properties.

1. The article is well written and presented. The article lacks some important information, which includes the properties of fibers like the diameter of each strand, tensile strength, etc.

2. The authors may also include the details of the resin used for making the composites.

3. The images of the hybrid composite samples and their preparation may be included at various stages in the manuscript for easy understanding.

4. Why did the authors not perform the same tests with individual fibers (sisal and sugar palm)? This could be useful for a better comparison of the effect of the hybridisation of fibers in composites.

5. The authors mentioned that the fibers were placed over the resin with random orientation. Does that mean the fibers were oriented in all directions like the X, Y, and Z axes?

6. What is the length of the fibers used in the composites? Was any specific aspect ratio maintained? Whether the fibers are in continuous or discrete form, include sample preparation photos for better clarity.