

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

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Potential competing interests: No potential competing interests to declare.

Page 2, 3: Use of undefined terms-CG and KG fibers, MWCNT, and any other abbreviation adopted

Page 3: Repetition-“ Common failure modes for the bast fiber-reinforced composite include fiber pull-out, fiber fracture, and matrix cracking, while delamination was reported as the major failure mode for the hybrid composite”

Poor English presentation.

Section 2.1: Figure 1.2 was presented before Fig. 1. Be consistent with figure numbering.

Section 3: Specific ASTM standards adopted must be indicated.

Original images or drawings to be adopted in Figure 7.

Errors in tensile strengths presented:

Abstract: ‘The obtained results show that the composite made of a sisal fiber 20% and sugar palm fiber 10% combination exhibits better tensile properties with a stress value of 6.67 N/mm²,’

“While the composite with a sisal fiber 10% and sugar palm fiber 20% showed a better flexural stress value of 67.29 N/mm²,”

Section 4.1: “Sample-1, with 10% sisal and 20% sugar palm hybrid fibers, gives the least value of tensile strength of 50 N/mm², and the highest tensile strength of 76 N/mm² for sample 3, which contains 15 % of sisal and 15 % of sugar palm fiber. The Sample-2 hybrid composite shows 65 N/mm² of tensile strength, which contains 20 % sisal and 10 % sugar palm fiber.”

Conclusion:

i. Sample - 3 exhibited better tensile properties, and the tensile stress of 76 N/mm² was higher compared to the other specimens. ii. Sample- 3 showed better performance in flexural strength, with a flexural stress value of 67.29 MPa compared to the other specimens.

From the above mechanical test results obtained by the hybrid composites, sample 3 has given better results as compared to the other specimens. Sample-3 has a fibre combination of sisal with 20% and sugar palm fibre with 10%; by

increasing the sisal fibre percentage, the specimens showed better mechanical properties.

Section 4.4: The equation for water absorption needs to be scientifically written with an equation editor. Equation number to be added.