



Mechanical Performance of Bio Particulated Natural Green Husk Coir Fiber-Vinyl Ester Composites

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Abstract: The tensile, flexural and impact properties of various bio particles impregnated natural green husk coir fiber reinforced vinyl ester composites were compared in order to introduce a new platform for the development of bio particulated natural fiber-polymer composites. The thermal conductivity of bio-particulated coir-vinyl ester composites were measured using Lee's disc method. The problem of matrix cracking for the quick failure of natural fiber reinforced polymer composites was solved using matrix strengthening by bio particulate inclusion and the inter laminar bond between constituents of composites were studied using SEM images in this investigation.

Keywords: Rice husk: particulate; coir fiber; vinyl-ester; scanning electron microscope.

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