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(54) Title of the invention : DEVELOPMENT AND CHARACTERIZATION OF NATURAL FIBER/FILLER REINFORCED POLYLACTIC ACID BIOCOSMOSITES

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(57) Abstract :

The present invention relates to that evaluation of physical and mechanical properties of Bauhinia Vahlia fiber reinforced epoxy composites filled with different bast fibers and rice husk filler. The comparison between the various set of fabricated composites has also been discussed. This reports the influence of different reinforcement on the sliding wear properties of bauhinia-vahlia epoxy composites. Also, it presents the comparison with those of similar weight percentage of other bast fibers-based epoxy composites. The test conditions are set using the Taguchi method. The ANOVA technique is applied to determine the significance of all selected control factors on the specific wear rate of composites under dry sliding conditions. Therefore, each part describing the sliding wear performance of epoxy composites filled with different reinforcement materials.

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