The effects of carbon particles addition from burned rice husk on mechanical properties and morphology of epoxy composite

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**Abstract**. This research aims to investigate the addition of carbon particles from the combustion of risk husk with volume fraction of 0%, 2%, 4%, 6%, and 8%. The particle size of carbon used is 100 mesh. The tensile test, impact test and SEM (Scanning Electron Microscope) were conducted in order to evaluate the particles addition. The method used in the composite manufacturing process was hand lay-up method. From the tensile test it was found that the addition of carbon increases the tensile strength where the highest obtained by composite with 8% volume fraction. However, the impact test showed different results where the highest impact strength obtained by composite with 2% volume fraction. The scanning electron micrograph reveals that there are voids on tensile fracture surface which are the cause of the composites failure.