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A Study on Hair and Coir Reinforced Polymer Composite

Jayachandran*, Hari Arjun, Lilly Mercy.J

Faculty of Mechanical Engineering, Sathyabama University, Chennai, India

Abstract: Natural fibers have earned its reputation in composites industry due to its ease of availability and biodegradability and less toxic nature. Many studies of have been done to investigate the properties of bamboo, sisal, jute, banana fibers in composites. Our work aims to study the mechanical properties of hair and coir reinforced with epoxy resin. Tensile, Flexural and Impact tests were conducted on specimens with different combinations of hair and coir in epoxy resin. Results indicate that the tensile strength of the composite increased due to hair reinforcement.

Keywords : Hair, Coir, Epoxy, Composite. Mechanical properties.

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