

Overview of Research and Development Efforts in the Field of Lignocellulose as Fillers and Reinforcing Fibers in Polymer Composites

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Abstract

An overview of current and past research in the field of lignocellulose material as fillers and reinforcing fibers was presented. Numerous agricultural resi-

dues, such as corncobs, wheat straw, oat straw, rice hulls, etc., can be used as fillers in thermoplastic composites. In addition, natural fibers such as jute, kenaf, hemp, and sisal can be used as reinforcing fibers in polymer composites to enhance the performance of these lignocellulose-reinforced materials. Tensile strength and modulus, flexural strength and modulus, and Izod impact properties were presented.

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