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Surface Modification of Plant Fibers; 3.3.1 Physical Treatments; 3.3.2 Physicochemical Treatments; 3.3.3 Chemical Modification of Plant Fibers; 3.4 Polyolefin Composites
3.4.1 Processing of Polyolefin/Natural Fiber Composites3.4.2 Mechanical Properties of Polyolefin/Natural Fiber Composites; 3.4.3 Dynamic Mechanical Properties of Polyolefin/Natural Fiber Composites; 3.4.4 Rheological Properties of Polyolefin/Natural Fiber Composites; 3.4.5 Thermoanalytical Properties of Polyolefin/Natural Fiber Composites; 3.4.6 Electrical Properties of Polyolefin/Natural Fiber Composites; 3.4.7 Water Absorption by Polyolefin/Natural Fiber Composites; 3.4.8 Nanocomposites; 3.5 Characterization of Polyolefin/Fiber Interfaces; 3.6 Applications of Polyolefin Composites
3.7 ConclusionsNomenclature; References; 4. Composites of Polyolefins and Some Polyolefin/Polyamide Blends as Matrices and Calcium Carbonate, Wood Flour, Sisal Fiber, Hydroxyapatite, and Montmorillonite as Fillers; 4.1 Introduction; 4.2 Composites of Polypropylene and High Density Polyethylene with Calcium Carbonate; 4.2.1 Mechanical Properties; 4.2.2 Influence of the Mixing Conditions on the Dispersion of the Filler; 4.2.3 Surface Modifiers for Calcium Carbonate; 4.2.4 Thermal Properties; 4.3 Composites of Polypropylene and High Density Polyethylene with Wood Flour and Sisal Fibers
4.3.1 Mechanical Properties4.3.2 Thermal Properties; 4.3.3 Influence of the Gamma Radiation on the Behavior of the Composites; 4.4 Composites of Polypropylene and High Density Polyethylene with Hydroxyapatite; 4.4.1 Influence of the Composite Preparation Methods on Its Mechanical Properties; 4.4.2 Modification of the HA Particles Surface and Its Influence on the Tensile Properties; 4.4.3 Influence of Gamma Radiation on the Composites; 4.5 Composites of Polyolefins/Polyamide 6 with Montmorillonite; 4.5.1 Mechanical Properties; 4.5.2 Influence of Different Compatibilizing Agents
4.5.3 Analysis of the Physical, Mechanical, Thermal, and Morphological Properties of Composites

Sommario/riassunto

This guide to the properties and applications of polyolefin composites consolidates information to help the reader compare, select, and integrate a material solution as needed. It covers polyolefin microcomposites, polyolefin nanocomposites, and advanced polyolefin nano and molecular composites and discusses processing, morphological characterization, crystallization, structure and properties, and performance evaluation at micro and nano structural levels. It details modeling and simulation, engineering performance properties, and applications. This is a practical, hands-on reference for pract

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