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Cellophane - is it compostable and biodegradable?

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Biodegradable packaging from biopolymers The Truth  
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William Andrew, Dec 31, 2012- Technology & Engineering- 472 pages. 0Reviews. Biopolymers and Biodegradable Plastics are a hot issue across the Plastics industry, and for many of the industry...



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mechanisms while also introducing useful applications, such as drug delivery systems and biomaterial-based regenerative therapies.

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This new Handbook provides engineers and scientists with the information and practical guidance needed to successfully design and manufacture products using biopolymers and biodegradable plastics. Biopolymers and biodegradable plastics are a hot issue across the plastics industry, and for many of the industry sectors that use plastic: from packaging to medical devices and from the construction industry to the automotive

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This new Handbook provides engineers and scientists

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with the information and practical guidance needed to successfully design and manufacture products using biopolymers and biodegradable plastics. Biopolymers and biodegradable plastics are a hot issue across the plastics industry, and for many of the industry sectors that use plastic: from packaging to medical devices and from the construction industry to the automotive sector. This book brings together in one place a number of key biopolymer and biodegradable plastics topics-in chapters previously published as well as updated and new chapters-for a broad audience of engineers of and scientists, especially those designing with biopolymers and biodegradable plastics or evaluating the options for switching from traditional



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plastics to biopolymers. Topics covered include preparation, fabrication, applications and recycling (including biodegradability and compostability). Applications in key areas such as films, coatings, controlled release, and tissue engineering are discussed.

Biopolymers have the potential to cut carbon emissions and reduce carbon dioxide in the atmosphere. The carbon dioxide released when they degrade can be reabsorbed by plants, which makes them close to carbon neutral. Biopolymers are biodegradable and some are compostable, too. This book presents key topics on biopolymers, including their synthesis,

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Characterization, and physiochemical properties, and discusses their applications in key areas such as biomedicine, agriculture, and environmental engineering. It will serve as an in-depth reference for the biopolymer industry—material suppliers and processors, producers, and fabricators—and engineers and scientists who are designing biopolymers or evaluating options for switching from traditional plastics to biopolymers.

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principles for new, environmentally friendly processes in the fields of engineering, science and technology.

Handbook of Biodegradable Polymers, the seventh volume in the Drug Delivery and Targeting book series, provides a source manual for synthetic procedures, properties and applications of bioerodible polymers. The authors describe widely available materials such as polyactides, collagen and gelatin, as well as polymers of emerging importance, such as the genetically-engineered and elastin-based polymers which are either proprietary or in early stages of development. Section 1 addresses synthetic absorbable polymers, and Section 2 profiles natural, semi-synthetic and

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biosynthetic polymers. Section 3 discusses the surface characterization of degradable polymers, the modeling of biodegradation and non-medical polymers. This book is ideal for researchers from academia and industry as well as chemists, pharmacists and physicians who deal with biopolymers, drug delivery and targeting, bioengineering and implantable devices.

In today ' s world, bioplastics are becoming increasingly prominent owing mainly to scarcity of oil, increase in the cost of petroleum-based commodities, and growing environmental concerns with the dumping of non-biodegradable plastics in landfills. This book summarizes the field of bioplastics by illustrating how

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they form a unique class of research area that integrates pure and applied sciences such as chemistry, engineering and material science, to initiate solutions. Compelling science demystifies this complex and often ambiguous branch of study for benefit of all those concerned with bioplastics.

Biopolymers and biodegradable plastics are finding new applications in various sectors, from packaging, to medical, automotive and many more. As synthetic plastics are increasingly replaced by their bioplastic equivalents, engineers are facing new challenges including processing, costs, environmental sustainability and – ultimately – developing successful

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products. Biopolymers: Processing and Products, the second book of a trilogy dedicated to biopolymers, gives a detailed insight into all aspects of processing, seamlessly linking the science of biopolymers to the latest trends in the development of new products. Processes covered in the book include blending, compounding, treatment, and shaping, as well as the formation of biocomposites. Biopolymer coatings and adhesives are also investigated. This book unique in its coverage contains information retrieved mainly from patents, which form the bulk of the book. The coverage of processing will help engineers and designers to improve output and efficiency of every stage of the product development process, and will form an

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indispensable tool in selecting the right biopolymer and processing technique for any given application, covering medical, automotive, food packaging and more. It will assist also engineers, material scientists and researchers to improve existing biopolymer processes and deliver better products at lower cost. Multi-disciplinary approach and critical presentation of all available processing techniques and new products of biopolymers Contains information not to be found in any other book Self-contained chapters

A comprehensive overview of biodegradable polymers, covering everything from synthesis, characterization, and degradation mechanisms while also introducing



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useful applications, such as drug delivery systems and biomaterial-based regenerative therapies. An introductory section deals with such fundamentals as basic chemical reactions during degradation, the complexity of biological environments and experimental methods for monitoring degradation processes. The result is a reliable reference source for those wanting to learn more about this important class of polymer materials, as well as scientists in the field seeking a deeper insight.

This first systematic scientific reference in the area of micro- and nanostructured biopolymer systems discusses in two volumes the morphology, structure,

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Dynamics, properties and applications of all important biopolymers, as well as their blends, composites, interpenetrating networks and gels. Selected leading researchers from industry, academia, government and private research institutions around the globe comprehensively review recent accomplishments in the field. They examine the current state of the art, new challenges, and opportunities, discussing all the synthetic routes to the generation of both micro- and nano-morphologies, as well as the synthesis, characterization and application of porous biopolymers. An outstanding resource for anyone involved in the field of eco-friendly biomaterials for advanced technologies.

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Introduction to Bioplastics Engineering is a practical, user-friendly reference for plastics engineers working with biopolymers and biodegradable plastics that addresses topics that are required for the successful development of cohesive bioplastic products. While there has been considerable demand for the use of bioplastics in industry, processing these bioplastics is a big challenge. The book provides plastics engineers and researchers with a fundamental, practical understanding of the differences between bioplastics and biodegradable polymers, along with guidance on the different methods used to process bioplastics. The book also covers additives and modifiers for

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biopolymers and their effect on properties. Examples include commercial applications of bioplastics, current bioplastics being developed, and future trends in the industry. This enables engineers, researchers, technicians, and students to understand the decisive relationship between different processing techniques, morphology, mechanical properties, and the further applications of bio-based polymers. The book presents a true engineering approach for the industry on the processing of biopolymers and biodegradable plastics – discussing the ease of use of the polymer, mechanical and thermal properties, rate of biodegradation in particular environments, and pros and cons of particular bioplastics. Enables engineers, researchers,

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technicians, and students to understand the decisive relationship between different processing techniques, morphology, mechanical properties, and the further applications of bio-based polymers. Covers additives and modifiers for biopolymers and their effect on properties Includes examples that illustrate the commercial applications of bioplastics, current bioplastics being developed, and future trends in the industry

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