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Global plastic injection molding market expected to reach \$233 billion by 2023

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Disclaimer | Accessibility Statement | Commerce Policy | Made In NYC | Stock quotes by finanzen.net NEW YORK, July 7, 2021 /PRNewswire/ -- The biodegradable polymers market is poised to grow by ...

The vast majority of plastic products are made from

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petroleum-based synthetic polymers that do not degrade in a landfill or in a compost-like environment. Therefore, the disposal of these products poses a serious environmental problem. An environmentally-conscious alternative is to design/synthesize polymers that are biodegradable. Biodegradable polymers for industrial applications introduces the subject in part one by outlining the classification and development of biodegradable polymers with individual chapters on polyhydroxyalkanoates, polyesteramides and thermoplastic starch biodegradable polymers and others. The second part explores the materials available for the production of biodegradable polymers. Polymers derived from sugars, natural fibres, renewable forest resources, poly(lactic acid) and protein-nanoparticle composites will be looked at in detail in this section. Part three looks at the properties and mechanisms of degradation, prefacing the subject with a chapter on current standards. The final part explores opportunities for industrial applications, with chapters on packing, agriculture and biodegradable polycaprolactone foams in supercritical carbon dioxide. Biodegradable polymers for industrial applications explores the fundamental concepts concerning the development of biodegradable polymers, degradable polymers from sustainable sources, degradation and properties and industrial applications. It is an authoritative book that will be invaluable for academics, researchers and policy makers in the industry.

This book focuses on starch polymers including starch genetics, biotechnological and chemical modification, nanostructures, processing, characterization, properties and applications. This books topic is in a cutting edge and emerging technology area of biomaterials, nanomaterials and renewable materials, and will involve international

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experts in diverse fields from genetic engineering to applications. Focuses on cutting edge applications of starch polymers, including starch genetics and Rheology Contains working examples and provides real problems and solutions in the area of biomaterials, nanomaterials, and renewable materials Provides systematic and in-depth coverage and critical assessment of all starch properties and applications from top scientists in the industry

This first book on this new green material collates all the information hitherto scattered in journal articles and on websites, thus meeting the application-oriented needs of the reader. The contents stretch between many important areas, such as production and applications of biopolymeric material, fundamental knowledge and practical applications, and includes valuable experimental case studies, which can be directly used in industrial practice. All the data satisfies EU environmental regulations, which are the most stringent worldwide.

This book comprises a collection of chapters on green biopolymer nanocomposites. The book discusses the preparation, properties, and applications of different types of biodegradable polymers. An overview of recent advances in the fabrication of biopolymers nanocomposites from a variety of sources, including organic and inorganic nanomaterials, is presented. The book highlights the importance and impact of eco-friendly green nanocomposites, both environmentally and economically. The contents of this book will prove useful for students, researchers, and professionals working in the field of nanocomposites and green technology.

The synthetic counterparts of natural polymeric materials

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are now finding applications as light weight, mechanically strong and environmentally stable sheets, fibers, films, adhesives, paints and foams and thus have replaced most of the commodity and structural materials. The systematic research on the preparation, characterization and utilization of plastics resulted into newer and newer polymers of much better and often a set of several desirable properties in a single polymer and the polymers have established their place in engineering applications as well. Although the bulk of plastics production is of relatively simple commodity polymers, the proportion of specially designed and tailor-made plastics for specific and sophisticated applications is also increasing with a great pace. The specialty plastics as well as their use in specific and sophisticated applications are the key to the continued scientific growth and technological advances in the new millennium. This book thoroughly covers today's rapidly growing topics on the specialty polymers and their applications in most sophisticated and specialized areas. It gives the up-to-date in depth knowledge and extremely comprehensive details of the chemistry, physics, material science, technology and device applications of specialty polymers. This comprehensive book containing 16 state-of-art-review chapters in the result of untiring efforts of 35 most renowned experts from national and international scientific community. This book is thought provoking to the researchers working in the fields of chemistry, biochemistry, biotechnology, medicine, polymer chemistry, semiconductor physics, material science, electrochemistry, biology, electronics, photonics, material science, solid state physics, nanotechnology, electrical and electronics engineering, optical engineering, device engineering, data storage etc.

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Polymer Green Flame Retardants covers key issues regarding the response of polymers during fire, the mechanisms of their flame retardation, the regulations imposed on their use, and the health hazards arising from their combustion. Presenting the latest research developments, the book focuses in particular on nanocomposites, believed to be the most promising approach for producing physically superior materials with low flammability and ecological impact. The fire properties of nanocomposites of various matrixes and fillers are discussed, the toxicological characteristics of these materials are analyzed, addressing also their environmental sustainability. Edited by distinguished scientists, including an array of international industry and academia experts, this book will appeal to chemical, mechanical, environmental, material and process engineers, upper-level undergraduate and graduate students in these disciplines, and generally to researchers developing commercially attractive and environmentally friendly fire-proof products. Provides recent findings on the manufacture of environmentally sustainable flame retardant polymeric materials Covers legislation and regulations concerning flame retarded polymeric material use Includes tables containing the fire properties of the most common polymeric materials

The value of the groceries purchases in the USA is over \$500 billion annually, most of which is accounted for by packaged foods. Plastic packaging of foods is not only ubiquitous in developed economies, but increasingly commonplace in the developing world, where plastic packaging is instrumental in decreasing the proportion of the food supply lost to spoilage. This new handbook is a combination of new material and updated chapters, chosen by Dr. Sina Ebnesajjad, from recently published books on this subject.

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Plastic Films in Food Packaging offers a practical handbook for engineers, scientists and managers working in the food packaging industry, providing a tailor-made package of science and engineering fundamentals, best practice techniques and guidance on new and emerging technologies. By covering materials, design, packaging processes, machinery and waste management together in one book, the authors enable the reader to take a lifecycle approach to food packaging. The Handbook addresses questions related to film grades, types of packages for different types of foods, packaging technologies, machinery and waste management. Additionally the book provides a review of new and emerging technologies. Two chapters cover the development of barrier films for food packaging and the regulatory and safety aspects of food packaging. Essential information and practical guidance for engineers and scientists working at all stages of the food packaging lifecycle: from design through manufacture to recycling. Includes key published material on plastic films in food packaging, updated specifically for this Handbook, and new material on the regulatory framework and safety aspects. Coverage of materials and applications together in one handbook enables engineers and scientists to make informed design and manufacturing decisions.

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