

Springer Series on Polymer and Composite Materials

Mariam Al-Ali AlMa'adeed  
Igor Krupa *Editors*

# Polyolefin Compounds and Materials

Fundamentals and Industrial  
Applications

 Springer

# Polyolefin Compounds And Materials Fundamentals And Industrial Applications Springer Series On Polymer And Composite Materials

**Muralisrinivasan Natamai  
Subramanian**



## **Polyolefin Compounds And Materials Fundamentals And Industrial Applications Springer Series On Polymer And Composite Materials:**

Polyolefin Compounds and Materials Mariam Al-Ali AlMa'adeed, Igor Krupa, 2015-12-23 This book describes industrial applications of polyolefins from the researchers perspective Polyolefins constitute today arguably the most important class of polymers and polymeric materials for widespread industrial applications This book summarizes the present state of the art Starting from fundamental aspects such as the polymerization techniques to synthesize polyolefins the book introduces the topic Basic knowledge about polyolefin composites and blends is explained before applications aspects in different industry sectors are discussed The spectrum comprises a wide range of applications and industry sectors such as the packaging and food industry the textile industry automotive and buildings and even biomedical applications Topics which are addressed in the various chapters comprise synthesis and processing of the materials their classification mechanical physical and technical requirements and properties their characterization and many more In the end of the book even the disposal degradation and recycling of polyolefins are addressed and light is shed on their commercial significance and economic value In this way the book follows the entire lifetime of polyolefin compounds and materials from their synthesis and processing over applications to the recycling and reuse of disposed or degraded polyolefin substrates Polymer Surface Modification

to Enhance Adhesion K. L. Mittal, Anil N. Netravali, 2024-03-01 POLYMER SURFACE MODIFICATION TO ENHANCE ADHESION This unique comprehensive and groundbreaking book is the first on this important subject Polymer Surface Modification to Enhance Adhesion comprises 13 chapters and is divided into two parts Part 1 Energetic Treatments and Part 2 Chemical Treatments Topics covered include atmospheric pressure plasma treatment of polymers to enhance adhesion corona treatment of polymer surfaces to enhance adhesion flame surface treatment of polymers to enhance adhesion vacuum UV photo oxidation of polymer surfaces to enhance adhesion optimization of adhesion of polymers using photochemical surface modification UV Ozone surface treatment of polymers to enhance adhesion adhesion enhancement of polymer surfaces by ion beam treatment polymer surface modification by charged particles laser surface modification of polymeric materials competition in adhesion between polysort and monosort functionalized polyolefinic surfaces amine terminated dendritic materials for polymer surface modification arginine glycine aspartic acid RGD modification of polymer surfaces and adhesion promoters for polymer surfaces Audience The book will be of great interest to polymer scientists surface scientists adhesionists materials scientists plastics engineers and to those involved in adhesive bonding packaging printing painting metallization biological adhesion biomedical devices and polymer composites **Materials for Biomedical Engineering:**

**Thermoset and Thermoplastic Polymers** Valentina Grumezescu, Alexandru Grumezescu, 2019-03-21 Materials for Biomedical Engineering Thermoset and Thermoplastic Polymers presents the newest and most interesting approaches to intelligent polymer engineering in both current and future progress in biomedical sciences Particular emphasis is placed on

the properties needed for each selected polymer and how to increase their biomedical potential in varying applications such as drug delivery and tissue engineering These materials are intended for use in diagnoses therapy and prophylaxis but are also relatable to other biomedical related applications such as sensors Recent developments and future perspectives regarding their use in biomedicine are discussed in detail making this book an ideal source on the topic Highlights the most well known applications of thermoset and thermoplastic polymers in biological and biomedical engineering Presents novel opportunities and ideas for developing or improving technologies in materials for companies those in biomedical industries and others Features at least 50% of references from the last 2 3 years      **Synthetic and Mineral Fibers, Their**

**Composites and Applications** Sanjay Mavinkere Rangappa,Vinod Ayyappan,Gaurav Manik,Suchart Siengchin,2024-07-25 Synthetic and Mineral Fibers Their Composites and Applications reviews recent advances and technological developments in this important research field The book provides an up to date record of significant research findings and observations along with an update on current and future potential applications The book provides vital information on recent advancements modern processing technologies manufacturing and applications and summarizes lifecycle and performance parameters for these types of composites This book will be a valuable reference resource for academic and industrial researchers and materials scientists and engineers working in the development of polymer composite materials reinforced with synthetic and mineral fibers for applications in aerospace medical defense automotive and construction sectors Covers both synthetic and mineral fibers their composites and applications Highlights recent advances in mineral fiber reinforced polymer composites modern processing methods and functionalization Provides updates on hybrid combination of both synthetic and mineral fiber composite technologies Features applications in aerospace medical defense and the construction industries

Nanohybrids Gaurav Sharma,Alberto García-Peñas,2021-01-20 The book covers preparation designing and utilization of nanohybrid materials for biomedical applications These materials can improve the effectiveness of drugs promote high cell growth in new scaffolds and lead to biodegradable surgical sutures The use of hybrid magneto plasmonic nanoparticles may lead to non invasive therapies The most promising materials are based on silica nanostructures polymers bioresorbable metals liposomes biopolymeric electrospun nanofibers graphene and gelatin Much research focuses on the development of biomaterials for cell regeneration and wound healing applications Keywords Biomedical Materials Cell Growth Cell Regeneration Wound Healing Surgical Sutures Non invasive Therapies Drug Transport Tissue Engineering Cardiovascular Implants Fracture Repair Implants Biodegradable Materials Hybrid Magneto plasmonic Nanoparticles Silica Nanostructures Polymers Bioresorbable Metals Liposomes Biopolymeric Electrospun Nanofibers Graphene Gelatin based Hydrogels

**Polyolefin Fibres** S C O Ugbohue,2017-06-09 Polyolefin Fibres Structure Properties and Industrial Applications Second Edition explores one of the most widely used commercial polymers with a focus on the most important polyolefins namely polyethylene polypropylene and polyolefin bicomponent fibres These versatile fibres are durable chemically resistant

lightweight economical and functional This new edition has been updated and expanded to include cutting edge research on a broad range of advanced applications Part I covers the structure and properties of polyolefin fibres incorporating a new chapter on the environmental aspects of polyolefin use Part II examines the methods for improving the functionality of polyolefins providing essential information for those engaged in developing high performance materials A final group of chapters addresses how polyolefin fibres can be incorporated into specific textile applications such as automotive geotextile biomedical and hygiene products and explores potential future development This book is an essential reference for textile technologists and manufacturers polymer and fibre scientists yarn and fabric manufacturers biomedical and device engineers and industrialists and researchers Introduces the types properties and structure of polyolefin fibers for readers new to the polyolefins field Examines methods to improve the functionality of polyolefin fibers providing essential information for textile technologists and research and development managers engaged in developing high performance materials Presents existing and potential applications of polyolefin fibers exploring how they can expand the range of commercial polyolefin based products

*Nanofillers for Sustainable Applications* N.M. Nurazzi,E. Bayraktar,M.N.F. Norrrahim,H.A. Aisyah,N. Abdullah,M.R.M. Asyraf,2023-12-22 Nanofillers for Sustainable Applications provides an in depth review of the wide ranging applications of nanofillers It explores both synthetic and natural nanofillers and focuses on their use as reinforcement and active fillers in composite structures Covering various aspects of nanofillers including synthesis methods characteristics properties and compatibility this book highlights the potential of nanofillers as functional materials for different applications and offers a collection of comparative studies to showcase their efficacy It emphasizes sustainability intelligent design and high end applications in fields such as packaging pulp and paper aerospace automotive medicine chemical industry biodiesel and chemical sensors This book is organized into several sections covering topics such as synthetic nanomaterials nanosafety natural nanofillers polymer composites metal nanofillers nanofillers in various industries nanofillers in renewable energy nanofillers in biomedical sectors and nanofillers in automotive and aerospace industries This book will be a useful reference for undergraduate and graduate students and academic researchers in the fields of materials science nanomaterials and polymer composites Key features Focuses on the fabrication approaches used for nanofillers in nanocomposites Covers materials selection design solutions manufacturing techniques and structural analysis highlighting their potential as functional materials in different applications Explores the positive environmental impact and material property improvements resulting from increased composite utilization across diverse industries Discusses other types of nanofillers like nanocellulose metal based graphene and wood based materials Includes case studies from leading industrial and academic experts

**Recycled Polymer Blends and Composites** Hanafi Ismail,Sapuan S. M.,Ilyas R. A.,2023-09-23 This book presents an authoritative account of the potential of recycled polymer blends and composites such as recycled rubber Polypropylene Poly Vinylidene Fluoride PVDF polyhydroxybutyrate 3 valerate PHBV Polyethylene and similar compounds in

polymer recycling industries It highlights the latest research on fundamentals of recycled polymer blends and composites such as physical chemical mechanical and thermal properties and morphological studies The book also provides a comprehensive state of the art review of recycling of polymer blends and composites for sustainability Polymeric substances recycled from excess sludge in wastewater treatment plants reinjection of Poly Vinylidene Fluoride PVDF polyolefin and Polypropylene post Industrial waste by primary recycling as well as the recent development of biomass and COVID 19 plastic waste derived char filled natural starch biocomposite briquettes are also covered **Long-Term Properties of Polyolefins**

Ann-Christine Albertsson,2004-04-22 **Advanced Functional Polymers** Khubab Shaker,Asif Hafeez,2023 This book highlights different domains of functional polymers from membranes and coatings to composite materials It includes their synthesis routes and techniques characterization properties and applications The book also provides the basics and advances about different functional polymers and composites with an up to date progress in the field of research and their application on a domestic and industrial scale The main topics to be covered include polymeric membranes paints and coatings smart polymers self healing elastomers biodegradable polymers food packaging and functional composite materials **Specialty Polymers** Ram K. Gupta,2023 This comprehensive volume provides current state of the art information on specialty polymers that can be used for many advanced applications The book covers the fundamentals of specialty polymers synthetic approaches and chemistries to modify their properties to meet the requirements for special applications along with current challenges and prospects Chapters are written by global experts making this a suitable textbook for students and a one stop resource for researchers and industry professionals Key Features Presents synthesis characterization and applications of specialty polymers for advanced applications Provides fundamentals and requirements for polymers to be used in many advanced and emerging areas Details novel methods and advanced technologies used in polymer industries Covers the state of the art progress on specialty polymers for a range of advanced applications *Polymer Blends and Composites* John A. Manson,Leslie Howard Sperling,1976 1 Homopolymer Structure and Behavior 1 1 High Polymers 1 2 Molecular Size and Shape 1 2 1 Chain Conformation 1 2 2 Chain Entanglement 1 3 Molecular Structure 1 3 1 Configurations of Polymer Chains 1 3 2 Stereo and Geometrical Isomerism 1 3 3 Random Branching 1 3 4 Nonrandom Branching 1 3 5 Crosslinking 1 4 Crystallinity and Order 1 4 1 Fringed Micelle Model 1 4 2 Folded Chain Single Crystals 1 4 3 Extended Chain Crystals 1 4 4 Spherulites 1 5 Mechanical Response Elasticity and Viscoelasticity 1 5 1 Molecular and Segmental Motion 1 5 2 Modulus Temperature Behavior 1 5 3 Five Regions of Viscoelastic Behavior 1 5 4 Rubberlike Elasticity 1 5 5 Dynamic Mechanical Spectroscopy 1 5 6 Stress Relaxation and Creep Behavior 1 5 7 Time Temperature Relationship 1 6 Energetics and Mechanics of Fracture 1 6 1 General Approach to Fracture 1 6 2 Energy Balance in Fracture 1 6 3 Viscoelastic Rupture of Elastomers 1 7 Mechanical Testing of Polymers 1 7 1 Stress Strain and Fracture Behavior 1 7 2 Impact Strength 1 7 3 Fatigue Appendix A Polymer Synthesis Appendix B Basic Mechanical Properties and Relationships Bibliography of Polymer

Books and Journals 2 General Behavior of Polymer Mixtures 2 1 Methods of Mixing Polymer Pairs 2 1 1 Polymer Blends 2 1 2 Graft Copolymers 2 1 3 Block Copolymers 2 1 4 Interpenetrating Polymer Networks IPN s 2 2 Interdiffusion 2 3 Nomenclature 2 4 Electron Microscopy 2 5 The Incompatibility Problem 2 5 1 Thermodynamics of Mixing 2 5 2 Polymer Polymer Phase Diagrams 2 6 Bulk Behavior of Two Phase Polymeric Materials 2 6 1 Glass Transitions 2 6 2 Modulus Temperature Behavior of Model Polyblends 2 6 3 Stress Relaxation Behavior 2 6 4 The Takayanagi Models 2 6 5 Free Volume Model 2 6 6 Other Models 2 6 7 Morphology Modulus Interrelationships 2 7 Analogy between Polymer Blends and Crystalline Homopolymers 2 8 Polymer Blend Chronology Appendix A Counterpart Phase Separation Characteristics of Metallic Alloys and Inorganic Glasses Bibliography of Polymer Blend Symposia 3 Rubber Toughened Plastics 3 1 Synthesis and Morphology 3 1 1 Impact Resistant Polystyrene 3 1 1 1 Solution Type Graft Copolymers 3 1 1 2 Phase Inversion 3 1 1 3 Grafting vs Mechanical Entrapment 3 1 2 ABS Resins 3 1 2 1 Emulsion Polymerization 3 1 2 2 Structure of the Latex Grafts 3 1 3 Origin of the Cell Structure 3 1 4 Poly vinyl chloride Blends 3 1 5 Mixed Latex Blends 3 2 Physical and Mechanical Behavior of Polyblends 3 2 1 The Effect of Compatibility on Transition Behavior 3 2 2 Impact Resistance and Deformation 3 2 2 1 Impact Behavior 3 2 2 2 Tensile and Creep Behavior 3 2 2 3 Fatigue Behavior 3 2 3 Toughening Mechanisms 3 2 3 1 Crazing and Shear Phenomena 3 2 3 2 Characteristics of the Rubber 3 3 Optical Properties of Polyblends 3 4 Oxidation and Weathering of Polyblends 4 Diblock and Triblock Copolymers 4 1 Synthesis 4 1 1 Dilithium Initiators 4 1 2 Mechanochemical Methods 4 2 Solution Behavior of Block Copolymers 4 3 Plastic Compositions 4 4 Thermoplastic Elastomers 4 5 Long Range Domain Order 4 6 Thermodynamics of Domain Characteristics 4 7 Thermodynamic Criteria for Phase Separation 4 7 1 Zeroth Approximation 4 7 2 Dilute Solution Approach 4 7 3 Diffusion Equation Approach 4 8 Effect of Solvent Casting on Morphology 4 9 Effect of Deformation on Morphology 4 10 Mixtures of A B Blocks with A and B Mechanical Blends 4 11 Rheological Behavior of Block Copolymers 5 Multiblock Copolymers Including Ionomers 5 1 Segmented Polyurethane Elastomers 5 1 1 Modulus and Swelling Behavior 5 1 2 Stress Strain Behavior 5 1 3 Stress Optical Behavior 5 1 4 Tensile Strength and Abrasion Resistance 5 1 5 Some Generalizations 5 2 Carboxylic Rubbers an Polymer Blends and Composites Muralisrinivasan Natamai Subramanian,2017-04-11 Because it is critically important to manufacture quality products a reasonable balance must be drawn between control requirements and parameters for improved processing method with respect to plastics additives An important contribution to the commercial polymer industry Polymer Blends and Composites is one of the first books to combine plastics additives testing and quality control The book is a comprehensive treatise on properties that provides detailed guidelines for selecting and using blends and composites for applications A valuable resource for operators processors engineers chemists the book serves to stimulate those already active in natural polymer composites **New Advances in Polyolefins** T.C. Chung,2012-10-28 Polyolefin is one of the most important materials produced in the chemical industry The research in this area is not only scientifically challenging but also potentially

economically rewarding Many research activities such as developing new catalysts understanding polymerization mechanisms modifying the products and improving the physical properties of the material have been proceeding at a very fast pace especially in the industrial laboratories in many countries It is very important and exciting to bring researchers active in this area from both the academic and industrial sectors to communicate their new findings To the best of my knowledge a symposium covering diverse aspects of polyolefin research has not been held in the USA for many years With this in mind a symposium entitled Recent Advances in Polyolefins was held at the National ACS Meeting in Washington D C August 23 28 1992 This symposium covered both scientific and technological aspects of polyolefin which included four sections Catalyst Polymerization Functionalization of Polyolefins Blends of Polyolefins with Other Polymers and Applications More than 50 papers including 20 foreign contributions were presented during three and a half days of meetings It was truly exciting to see key researchers from both academic and industrial laboratories exchange their recent results and to share the important developments in polyolefins This volume is based on the same spirit and is intended to capture some of the most recent and emerging technical achievements presented at the meeting

*Polymer Blends and Composites in Multiphase Systems* Chang Dae Han, 1984

*Polymers and Composites* Richard Arthur Pethrick, Gennadii Efremovich Zaikov, Daniel Horák, 2007

Book CD This book aims to present the progress in the science of polymers and monomer synthesis study of properties and application of polymers polymer mixtures composites and filled polymers The book collects original articles and reviews important for both pure and applied chemistry The application of polymers in medicine composites and nanocomposites reduction of polymer material combustibility kinetics and the mechanism of various reactions are of special attention Both synthetic and natural polymers are discussed Some part of the collection related to chemistry and physics of polymers is devoted to oligomers and low molecular compounds This book brings together new and exciting research in this field



Uncover the mysteries within Crafted by is enigmatic creation, Discover the Intrigue in **Polyolefin Compounds And Materials Fundamentals And Industrial Applications Springer Series On Polymer And Composite Materials** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( Download in PDF: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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