

# NEW CONCEPTS IN POLYMER SCIENCE

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## Reactive Oligomers

S.G. Entelis, V.V. Evreinov  
and A.I. Kuzaev

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CRC Press  
Taylor & Francis Group

# Reactive Oligomers

**Constantin V. Uglea, Ioan I. Negulescu**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

## Reactive Oligomers:

**Reactive Oligomers** Entelis, Evreinov, Kuzaev, 2023-03-08 Reactive oligomers ROs constitute a starting material for the production of numerous polymeric materials with a pre assigned set of physico mechanical and physico chemical properties This book is the first to treat systematically various methods for determining the FTD and MWD of functional oligomers Special attention is given to the application of liquid chromatography in different separation modes exclusion gel permeation chromatography GPC and adsorption as well as to the separation of functional oligomers in the critical region SCR at the boundary between the specified modes *Reactive Oligomers* Sergej G. Entelis, V. V. Evreinov, A. I. Kuzaev, 1989-06 Reactive oligomers ROs constitute a starting material for the production of numerous polymeric materials with a pre assigned set of physico mechanical and physico chemical properties This book is the first to treat systematically various methods for determining the FTD and MWD of functional oligomers Special attention is given to the application of liquid chromatography in different separation modes exclusion gel permeation chromatography GPC and adsorption as well as to the separation of functional oligomers in the critical region SCR at the boundary between the specified modes Reactive Oligomers Entelis, Evreinov, Kuzaev, 2023-03-08 Reactive oligomers ROs constitute a starting material for the production of numerous polymeric materials with a pre assigned set of physico mechanical and physico chemical properties This book is the first to treat systematically various methods for determining the FTD and MWD of functional oligomers Special attention is given to the application of liquid chromatography in different separation modes exclusion gel permeation chromatography GPC and adsorption as well as to the separation of functional oligomers in the critical region SCR at the boundary between the specified modes **Reactive Oligomers** Frank Wayne Harris, 1985 Serves as the first book to look at the many applications of various types of oligomers Describes oligomer synthesis and subsequent reactions by cationic anionic free radical and condensation techniques Reports on different applications with similar research approaches including composite resins electronic coatings high solids paints and more **Synthesis and Characterization of Oligomers** Constantin V. Uglea, Ioan I. Negulescu, 1991-07-24 This book provides an excellent introduction to the fundamentals of oligomer chemistry Each section describes the synthesis separation physico chemical characterization and present and future applications of individual classes of oligomers organized according to the chemical structure of the main chain In addition this book features up to date references from both journals and patents and an extensive appendix covering synthesis and characterization methods of oligomeric derivatives *Synthesis and Characterization of Oligomers* is a broad state of the art survey and will be useful not only for students and professionals working with oligomers but also chemists who are new to the field Polysulfide Oligomer Sealants Yuri N. Khakimullin, Vladimir S. Minkin, Timur R. Deberdeev, 2015-02-04 This valuable book is devoted to problems of the synthesis vulcanization modification and study of structure and properties of highly filled sealants based on polysulfide oligomers PSO The book summarizes information concerning chemistry synthesis technology

structure and properties of liquid thiokols and thiokol containing polyesters It

**Physico-Chemical Principles for Processing of Oligomeric Blends** Semjon M Mezhiakouski, 2024-12-06 Covers the current state of theoretical and experimental studies of oligomeric mixed systems from the physico chemical standpoint and provides a technologist with the means for the quantitative approach to preparing liquid oligomeric compositions and choosing proper operating conditions for their processing into materials and articles Recommendations are given on the practical use of found physico patterns as well as the physico chemical analysis of the effect of the composition ingredients on the final properties

*Composites Engineering Handbook* P.K. Mallick, 1997-03-19 Offers information on the fundamental principles processes methods and procedures related to fibre reinforced composites The book presents a comparative view and provides design properties of polymeric metal ceramic and cement matrix composites It also gives current test methods joining techniques and design methodologies

**Polymer Science: A Comprehensive Reference**, 2012-12-05 The progress in polymer science is revealed in the chapters of Polymer Science A Comprehensive Reference Ten Volume Set In Volume 1 this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films Volume 2 addresses new characterization techniques such as high resolution optical microscopy scanning probe microscopy and other procedures for surface and interface characterization Volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture the development of metallocene and post metallocene catalysis for olefin polymerization new ionic polymerization procedures and atom transfer radical polymerization nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods Volume 4 is devoted to kinetics mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins ROMP as well as to various less common polymerization techniques Polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5 Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7 It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers Volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in

biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces The last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner Pressure-Sensitive

Formulation Istvan Benedek,2020-06-07 Growing interest in the formulation of pressure sensitive adhesives as described in the first edition of this book Pressure Sensitive Formulation VSP 2000 required a new enlarged edition including the design of pressure sensitive adhesives as a separate volume Developments in the understanding of pressure sensitivity were necessary to use macromolecular chemistry for pressure sensitive design Such developments include polymer physics and contact mechanics Progress in coating technology especially in in line coating and synthesis opened new ways for the design of pressure sensitive adhesives and products as well Actually pressure sensitive products with and without adhesives compete requiring a broad variety of material formulations and the corresponding manufacturing technology The first volume of the book examines the theoretical aspects of pressure sensitive design based on macromolecular chemistry macromolecular physics rheology and contact mechanics The second volume describes the practical aspects of pressure sensitive design and formulation related to product application The advances in the various domains are described by specialists **Processes in Photoreactive Polymers** V.V. Krongauz,A.D. Trifunac,2013-11-27 The development of

photosensitive materials in general and photoreactive polymers in particular is responsible for major advances in the information imaging and electronic industries Computer parts manufacturing information storage and book and magazine publishing all depend on photoreactive polymer systems The photo and radiation induced processes in polymers are also active areas of research New information on the preparation and properties of commercially available photosensitive systems is constantly being acquired The recent demand for environmentally safe solvent free and water soluble materials also motivated changes in the composition of photopolymers and photoresists The interest in holographic recording media for head up displays light scanners and data recording stimulated development of reconfigurable and visible light sensitive materials Photoconductive polymerizable coatings are being tested in electrostatic proofing and color printing The list of available initiators polymeric binders and other coating ingredients is continually evolving to respond to the requirements of low component loss low diffusivity and the high rate of photochemical reactions **New Methods of Polymer Synthesis** J.R. Ebdon,2012-12-06 Most practitioners and students of polymer chemistry are familiar in general terms at least with the

established methods of polymer synthesis radical anionic cationic and coordination addition polymerization and stepwise condensation and rearrangement polymerization These methods are used to synthesize the majority of polymers used in the manufacture of commercially important plastics fibres resins and rubbers and are covered in most introductory polymer chemistry textbooks and in most undergraduate and graduate courses on polymer science Fewer polymer chemists however have much familiarity with more recent developments in methods of polymer synthesis unless they have been specifically involved for some time in the synthesis of speciality polymers These developments include not only refinements to established methods but also new mechanisms of polymerization such as group transfer and metathesis polymerization and novel non polymerization routes to speciality polymers involving for example the chemical modification of preformed polymers or the linking together of short terminally functionalized blocks

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Telechelic Polymers: Synthesis and Applications Eric J. Goethals, 2018-01-18 This first of its kind publication reviews the most important literature on the synthesis properties and applications of telechelic polymers Written by a group of internationally known experts in the field this text contains a review table which allows the reader to search for given polymers with given end groups Over 1 250 references are listed covering primary and review articles as well as patents Chapters include the preparation of telechelics by stepwise polymerization anionic polymerization radical polymerization cationic polymerization ring opening polymerization and controlled polymer degradation Polyols for the polyurethane production are described as well as halato telechelic polymers Also a more theoretical contribution on the physical properties of networks formed from telechelic polymers is provided

**Telechelic Polymers** Eric J. Goethals, 1988-12-31 This first of its kind publication reviews the most important literature on the synthesis properties and applications of telechelic polymers Written by a group of internationally known experts in the field this text contains a review table which allows the reader to search for given polymers with given end groups Over 1 250 references are listed covering primary and review articles as well as patents Chapters include the preparation of

telechelics by stepwise polymerization anionic polymerization radical polymerization cationic polymerization ring opening polymerization and controlled polymer degradation Polyols for the polyurethane production are described as well as halato telechelic polymers Also a more theoretical contribution on the physical properties of net works formed from telechelic polymers is provided Oligomer Technology and Applications Constantin V. Uglea,1998-01-05 Details laboratory and industrial synthesis and applications of oligomers suggesting practical solutions to the on the job problems as well as exploring processing devices and techniques for industrial scale production of new oligomer types Pressure-Sensitive Design and Formulation, Application Istvan Benedek,2006-07-15 Growing interest in the formulation of pressure sensitive adhesives as described in the first edition of this book Pressure Sensitive Formulation VSP 2000 required a new enlarged edition including the design of pressure sensitive adhesives as a separate volume Developments in the understanding of pressure sensitivity were necessary to use ma *Specialty Polymers* Ram K. Gupta,2023-01-31 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 *Stereolithography* Paulo Jorge Bártolo,2011-03-18 Stereolithography Materials Processes and Applications will focus on recent advances in stereolithography covering aspects related to the most recent advances in the field in terms of fabrication processes two photon polymerization micro stereolithography infrared stereolithography and stereo thermal lithography materials novel resins hydrogels for medical applications and highly reinforced resins with ceramics and metals computer simulation and applications **Handbook of Adhesives** Irving Skeist,2012-12-06 Adhesives are indispensable They are required pling agents and other key ingredients Special in myriad products aircraft and abrasives cars attention is given to such flourishing categories and cartons shoes and safety glass tape and as acrylics anaerobics cyanoacrylates poly urethanes epoxy resins polyvinyl acetate high tires This Third Edition of Handbook of Adhesives like the 1962 and 1977 editions seeks temperature adhesives hot melts silicones and to provide the knowledge needed for optimum silanes selection preparation and utilization of adhe The last 14 chapters on adherends and bond sives and sealants The information is detailed ing technology involve the auto industry air and explicit with several hundred illustrative craft electronics the bonding of wood formulations textiles rubber and plastics construction ab Expert information has been supplied in 47 rasives pressure sensitives nonwovens and chapters written by 70 industry specialists pro sealants Mechanical handling of two

composers and consultants Five chapters on fun nent systems is examined The concluding damentals provide the theoretical and economic chapter highlights the exciting progress that is underpinnings why adhesives work how they being made in the use of robotics to apply ad are selected how the surface is prepared how hesives techniques already far advanced in au they are applied how they are set how the tomotive assembly cured joint is tested

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