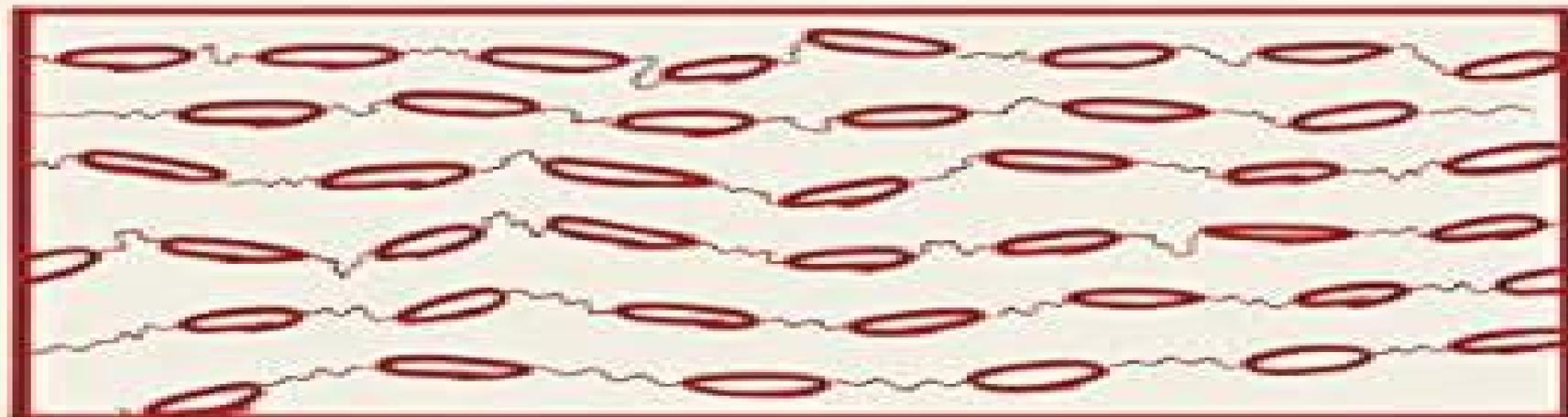


POLYMER SCIENCE AND TECHNOLOGY • VOLUME 28

POLYMERIC LIQUID CRYSTALS

Edited by

ALEXANDRE BLUMSTEIN



Polymeric Liquid Crystals Polymer Science And Technology

Tai-shung Chung



Polymeric Liquid Crystals Polymer Science And Technology:

Polymeric Liquid Crystals Alexandre Blumstein, 2013-06-29 This book originated in the Proceedings of the Second Symposium on Polymeric Liquid Crystals held by the Division of Polymer Chemistry in the framework of the 1983 Fall Meeting of the American Chemical Society At the First Symposium in 1977 the literature in this field could be encompassed in a single volume To day that is no longer possible The field of Polymeric Liquid Crystals grew and continues to grow at a very rapid pace At present we know of every major mesophase in its polymeric form and of polymeric glasses elastomers and fluids in their liquid crystalline form Every year new polymeric mesophases are being discovered The aim of this book is to go beyond a compilation of papers presented at the 1983 ACS Fall Meeting It is conceived as a learning tool for the benefit of the sci entist interested in Polymeric Liquid Crystals The book is divided into three sections The first section contains articles discussing synthetic physico chemical structural and rheological aspects of Polymeric Liquid Crystals in their generality A chapter on methods currently used in this field is also included There are also chapters on theoretical and classification aspects of PLCs These self contained tutorial chapters provide an introduction to this field as well as to the specific papers given in the book They provide an exhaustive cover age of literature on the subject from its inception to the present

Polymeric Liquid Crystals Alexandre Blumstein, 1985 Polymeric Liquid Crystals Alexandre Blumstein, 1985-03-01 This book originated in the Proceedings of the Second Symposium on Polymeric Liquid Crystals held by the Division of Polymer Chemistry in the framework of the 1983 Fall Meeting of the American Chemical Society At the First Symposium in 1977 the literature in this field could be encompassed in a single volume To day that is no longer possible The field of Polymeric Liquid Crystals grew and continues to grow at a very rapid pace At present we know of every major mesophase in its polymeric form and of polymeric glasses elastomers and fluids in their liquid crystalline form Every year new polymeric mesophases are being discovered The aim of this book is to go beyond a compilation of papers presented at the 1983 ACS Fall Meeting It is conceived as a learning tool for the benefit of the sci entist interested in Polymeric Liquid Crystals The book is divided into three sections The first section contains articles discussing synthetic physico chemical structural and rheological aspects of Polymeric Liquid Crystals in their generality A chapter on methods currently used in this field is also included There are also chapters on theoretical and classification aspects of PLCs These self contained tutorial chapters provide an introduction to this field as well as to the specific papers given in the book They provide an exhaustive cover age of literature on the subject from its inception to the present

Liquid Crystal Polymers D. Coates, 2000 Liquid crystal polymers LCPs have a wide range of uses from strong engineering plastics to delicate gels for use in liquid crystal LC displays For this reason it is essential reading for materials scientists engineers or technologists in industry as well as research laboratories or academia An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading

Thermotropic Liquid Crystal Polymers Tai-Shung Chung, 2001-03-01 Liquid crystal

polymers are sometimes called super polymers with good reason Their wide range of exceptional properties and ease of processing make them design candidates for many demanding applications This new book provides a thorough review of LCP technology with the emphasis on the chemistry synthesis and characterization of the material in its many variants Additional chapters cover processing and applications From the Editor s Preface The field of thermotropic liquid crystalline polymers has grown substantially in the last two decades with fundamental research publications commercial products and patents In the 1980 s Dr Ralph Miano led my colleagues and me at Hoechst Celanese in commercializing the first thermotropic liquid crystalline polymers based on Dr Gordon Calundann s composition patents Today more than seven companies have produced thermotropic liquid crystalline polymer materials with at least 50 variants available Hence it is timely to compile a comprehensive review on the nature of this type of material and the ongoing progress in this field The goals of this book are to summarize previous work provide new insights into this class of polymers and add to the understanding of the formation of liquid crystallinity This book covers a wide range of topics and addresses different disciplines in the field The chapters are arranged as a learning scheme for the professional from basic science to applied engineering The first few chapters summarize the syntheses of various polyester polyester amid and polyimide liquid crystalline polymers The science and origins of liquid crystal formation are revealed Next we introduce the characterizations of these materials by their different chemical and physical aspects Because most commercially available thermotropic liquid crystalline polymers have been used in the form of composites we have also incorporated a chapter on polymer blends detailing blending mechanisms and resultant properties Two chapters on thermosetting liquid crystalline polymers integrate them with other topics because of their unique importance and their applications for microelectronics and packaging The final chapter deals with the engineering and processing aspects of thermoplastic liquid crystalline polymers for a variety of applications

International Polymer Science and Technology ,1987 *Polymer Liquid Crystals* A Ciferri,2012-12-02 *Polymer Liquid Crystals* covers the significant developments in the field of highlight oriented polymers This 12 chapter book emerged from lectures presented during the seminar *Polymer Liquid Crystals Science and Technology* held at Santa Margherita Ligure Italy on May 19 23 1981 The opening chapters highlight the molecular basis of liquid crystallinity The subsequent chapters deal with the synthesis structure properties and macroscopic phenomena of polymer liquid crystals These topics are followed by descriptions of the orientation of liquid crystals specifically the instabilities in low molecular weight nematic and cholesteric liquid crystals The final chapters consider the applications of these crystals to display devices and the advances in high strength fibers and molecular composites This book will be of great value to polymer liquid crystal chemists and researchers *Concise Polymeric Materials Encyclopedia* Joseph C. Salamone,1998-08-28 *Concise Polymeric Materials Encyclopedia* culls the most used widely applicable articles from the *Polymeric Materials Encyclopedia* more than 1 100 and presents them to you in a condensed well ordered format Featuring contributions from more than 1 800 scientists from all

over the world the book discusses a vast array of subjects related to the synthesis properties and applications of polymeric materials development of modern catalysts in preparing new or modified polymers modification of existing polymers by chemical and physical processes biologically oriented polymers This comprehensive easy to use resource on modern polymeric materials serves as an invaluable addition to reference collections in the polymer field **Polymer Science and Engineering** National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Committee on Polymer Science and Engineering, 1994-01-01 Polymers are used in everything from nylon stockings to commercial aircraft to artificial heart valves and they have a key role in addressing international competitiveness and other national issues Polymer Science and Engineering explores the universe of polymers describing their properties and wide ranging potential and presents the state of the science with a hard look at downward trends in research support Leading experts offer findings recommendations and research directions Lively vignettes provide snapshots of polymers in everyday applications The volume includes an overview of the use of polymers in such fields as medicine and biotechnology information and communication housing and construction energy and transportation national defense and environmental protection The committee looks at the various classes of polymers plastics fibers composites and other materials as well as polymers used as membranes and coatings and how their composition and specific methods of processing result in unparalleled usefulness The reader can also learn the science behind the technology including efforts to model polymer synthesis after nature s methods and breakthroughs in characterizing polymer properties needed for twenty first century applications This informative volume will be important to chemists engineers materials scientists researchers industrialists and policymakers interested in the role of polymers as well as to science and engineering educators and students Liquid Crystalline Polymers Xin-jiu Wang, Qi-feng Zhou, 2004-04-14 This textbook consists of six chapters The first chapter highlights the concept of liquid crystals including chemical structure phase classification defect and texture and continuum theory It has been carefully written to meet the needs of readers who do not specialize in liquid crystals The second chapter is related to the theoretical description of liquid crystalline polymers networks and gels which deals with subjects such as the formation of liquid crystallinity in the polymer system the phase transition and phase diagram the molecular weight effect chain conformation physics properties etc In Chapter 3 the molecular engineering of liquid crystalline polymers is introduced The molecular composition and the molecular weight play essential roles in the molecular design which are reviewed in detail In addition some unusual liquid crystalline polymers are discussed Chapter 4 is devoted to the phase identification of liquid crystalline polymers The techniques involved cover polarizing microscopy thermal analysis X ray diffraction and other areas Chapters 5 and 6 summarize the properties and applications of liquid crystalline polymers Chapter 5 deals mainly with mechanical performance in fiber and composites Chapter 6 presents the elasticity viscosity and rheology of liquid crystalline polymers as well as other important properties **Recent Advances in Liquid**

Crystalline Polymers L. L. Chapoy, 2012-12-06 This volume contains an eclectic collection of 22 papers on liquid crystalline polymers presented at the Sixth Polymer Workshop in the series sponsored by the European Science Foundation entitled Liquid Crystal Polymer Systems in Gentofte Denmark 12-14 September 1983 Since a contribution to this volume was strictly voluntary and in some cases represents a considerably expanded version of that which was presented it is strictly speaking not correct to term this a proceedings A description of the aims and purposes of the European Science Foundation with respect to the polymer area has been presented in Shell Polymers Vol 5 No 2 pp 34-35 1981 The papers given here represent a cross section of current research interests in liquid crystalline polymers in the areas of theory synthesis characterization structure property relationships and applications At least some of the current interest is motivated by attempts to practically exploit the novel properties of these materials in the developing technologies of high strength fibres and advanced materials for constructional purposes but also for functional materials in the areas of information retrieval electronics and optoelectronics applications The editor wishes to thank all those involved for their courtesy and cooperation

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

Natural and Wood Fibre Reinforcement in Polymers A. K. Bledzki, V. E. Sperber, O. Faruk, 2002 This report examines the different fibre types available and the current research The authors have cited several hundred references to the latest work on properties processing and applications The different methods of fibre pretreatment are examined together with fibre properties chemistry and applications This review is accompanied by summaries of papers from the Rapra Polymer Library database

Thermotropic Liquid Crystal Polymers Tai-Shung Chung, 2001-03-01 Liquid crystal polymers are sometimes called super polymers with good reason Their wide range of exceptional properties and ease of processing make them design candidates for many demanding applications This new book provides a thorough review of LCP technology with the emphasis on the chemistry synthesis and characterization of the material in its many variants Additional chapters cover processing and applications From the Editor's Preface The field of thermotropic liquid crystalline polymers has grown substantially in the last two decades with fundamental research publications commercial products and patents In the 1980 s Dr Ralph Miano led my colleagues and me at Hoechst Celanese in commercializing the first thermotropic liquid crystalline polymers based on Dr Gordon Calundann's composition patents Today more than seven companies have produced thermotropic liquid crystalline polymer materials with at least 50 variants available Hence it is timely to compile a comprehensive review on the nature of this type of material and the ongoing progress in this field The goals of this book are to summarize previous work provide new insights into this class of polymers and add to the understanding of the formation of liquid crystallinity This book covers a wide range of topics and addresses different disciplines in the field The chapters are arranged as a learning scheme for the professional from basic science to applied engineering The first few chapters summarize the syntheses of various polyester polyester amid and polyimide liquid crystalline polymers The science and origins of liquid crystal formation are revealed Next we introduce the characterizations of these materials by their different chemical and physical aspects Because most commercially available thermotropic liquid crystalline polymers have been used in the form of composites we have also incorporated a chapter on polymer blends

detailing blending mechanisms and resultant properties Two chapters on thermosetting liquid crystalline polymers integrate them with other topics because of their unique importance and their applications for microelectronics and packaging The final chapter deals with the engineering and processing aspects of thermoplastic liquid crystalline polymers for a variety of applications

Encyclopedia of Polymer Science and Technology: v. 12. Surface analysis to Yield and crazing in polymers
Herman Francis Mark,2003 This completely new Third Edition of the Mark Encyclopedia of Polymer Science and Technology brings the state of the art to the 21st century with coverage of nanotechnology new imaging and analytical techniques new methods of controlled polymer architecture biomimetics and more Whereas earlier editions published one volume at a time the third edition is being published in 3 Parts of 4 volumes each Each of these 4 volume Parts is an A Z selection of the latest in polymer science and technology as published in the updated online edition of the Mark Encyclopedia of Polymer Science and Technology available at www.mrw.interscience.wiley.com/epst Order the 12 volume set ISBN 0471275077 now for the best value and receive each of the 4 volume Parts as they publish The complete list of titles to appear in Part 1 of this new third print edition can be viewed at www.mrw.interscience.wiley.com/epst and clicking on What's New Check this website often as new articles are added periodically

Polymers in Telecommunication Devices G. H. Cross,Graham H. Cross,2002 This report discusses the use of polymers instead of and in conjunction with traditional platforms such as indium phosphide and ferroelectric ceramic lithium niobate Critical comparisons are made between use of polymers and alternative This review report gives an overview of all the elements of optical transmission and switching systems that are used in telecommunications and is a fully interdisciplinary account of materials and device design issues An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading

Advances in Thermotropic Liquid Crystal Polymers Tai-shung Chung,2001 Annotation Liquid crystal polymers are sometimes called super polymers with good reason Their wide range of exceptional properties and ease of processing make them design candidates for many demanding applications This new book provides a thorough review of LCP technology with the emphasis on the chemistry synthesis and characterization of the material in its many variants Additional chapters cover processing and applications From the Editor's Preface The field of thermotropic liquid crystalline polymers has grown substantially in the last two decades with fundamental research publications commercial products and patents In the 1980's Dr Ralph Miano led my colleagues and me at Hoechst Celanese in commercializing the first thermotropic liquid crystalline polymers based on Dr Gordon Calundann's composition patents Today more than seven companies have produced thermotropic liquid crystalline polymer materials with at least 50 variants available Hence it is timely to compile a comprehensive review on the nature of this type of material and the ongoing progress in this field The goals of this book are to summarize previous work provide new insights into this class of polymers and add to the understanding of the formation of liquid crystallinity This book covers a wide range of topics and addresses different disciplines in the field The chapters are

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Polymer Science, 1994 *Handbook of Polymer Science and Technology: Synthesis and properties* Nicholas P. Cheremisinoff, 1989

Liquid Crystal Polymers: From Structures to Applications A.A. Collyer, 1992-12-31 This study describes the nature of LCPs their syntheses characterization properties and finally their application It discusses the way in which liquid crystallinity or mesomorphism occurs in small molecules monomer liquid crystals and polymer liquid crystals

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