

# Side Chain Liquid Crystal Polymers (SCLCPs)

## Terminally Attached

Polymer backbone

Spacer unit

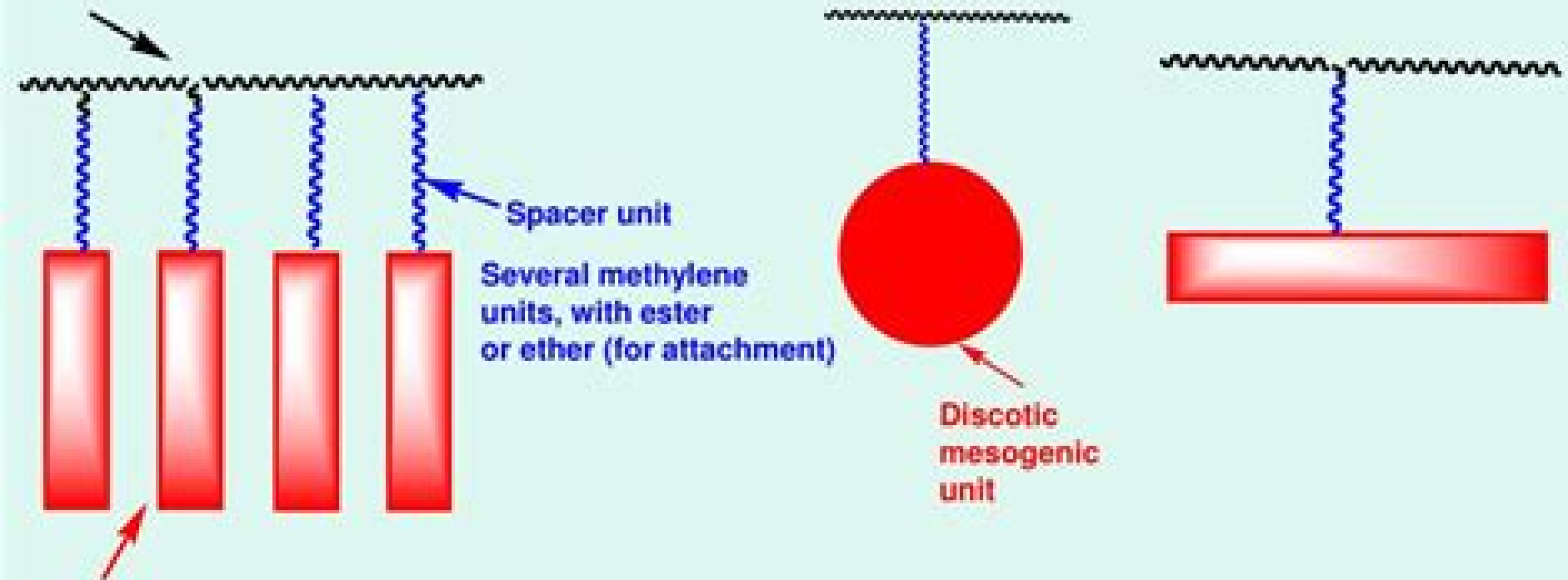
Several methylene units, with ester or ether (for attachment)

Calamitic mesogenic unit

## Laterally Attached

Discotic mesogenic unit

A general template for side chain liquid crystal polymers



# Side Chain Liquid Crystal Polymers

**Léo Pomar**

A decorative red circular graphic with a gradient, appearing as a semi-circle or a stylized arrow pointing to the right, located on the right side of the light blue horizontal bar.

## **Side Chain Liquid Crystal Polymers:**

*Side Chain Liquid Crystal Polymers* C.B. McArdle, 1990-04-30      Theoretical Predictions for Side-chain Liquid-crystal Polymers and Comparison to Experiment, 1988 This paper presents results from a new unique microscopic molecular theory for side chain liquid crystalline polymers LCPs in the nematic N and multiple smectic A SA LC phases and the isotropic I liquid phase There are no ad hoc or arbitrarily adjustable parameters in this theory The agreement between the theoretical and experimental values for various properties including transition temperatures and quadratic characteristic radii is very good relative deviations between 0% and less than 6 2% The theoretical results also show for the first time that the N and I phases for these LCPs involve the packing of plate like sections of backbones and side chains and that the local bilayer SA phase involves packing of side chains within a plate like section This type of packing is predicted to be typical for side chain LCPs This theory can predict for the first time whether the side chains of a molecule pack on the same or alternating opposite sides of the backbone and whether side chains on different molecules interdigitate overlap with each other 13 refs 1 fig 4 tabs      **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      **Synthesis of Side Chain Liquid Crystal Polymers by Living Ring Opening Metathesis Polymerization. 4. Synthesis of Amorphous and Side Chain Liquid Crystal AB Block Copolymers**, 1992 Diblock copolymers with well defined block length yield ordered phase separation Morphology of the microphase separation is controllable by varying the weight ratio of the two blocks and the length of each block If one of the blocks is a side chain liquid crystalline polymer SCLCP microphase separated systems with liquid crystalline microphases may be realized Such systems are of fundamental as well as practical interest The effect of size and type of the liquid crystalline microphase transition is one of the fundamental questions This effect is recently investigated by the polymer system in which low molecular weight liquid crystals are dispersed Different from the low

molecular weight liquid crystals dispersed systems the block copolymer can give several types of microdomains lamellae cylinders or spheres

**Structure-property Relationships in Side Chain Liquid Crystal Polymers** Aileen A. Craig, 1996

**The Synthesis and Evaluation of Side Chain Liquid Crystal Polymers** Philip James Smith, 1993

**Synthesis of Novel Side Chain Liquid Crystal Polymers** Paul Rostron, 1996

*Polarized Light in Liquid Crystals and Polymers* Toralf Scharf, 2007-01-02

*Polarized Light in Liquid Crystals and Polymers* deals with the linear optics of birefringent materials such as liquid crystals and polymers and surveys light propagation in such media with special attention to applications. It is unique in treating light propagation in micro and nanostructured birefringent optical elements such as lenses and gratings composed of birefringent materials as well as the spatial varying anisotropic structures often found in miniaturized liquid crystal devices.

*Liquid Crystalline Polymers* A. M. Donald, A. H. Windle, S. Hanna, 2006-05-11

A 2006 edition explaining the underlying science and applications of liquid crystalline polymers.

**Synthesis of Side Chain Liquid Crystal Polymers by Living Ring Opening Metathesis Polymerization. 1. Influence of Molecular Weight, Polydispersity, and Flexible Spacer Length (n)**, 1992

The living ring opening metathesis polymerization of 5-carbon 4-methoxy-4-biphenyl-yl-oxy-alkyl bicyclo[2.2.1]hept-2-ene-1,1-dimethyl-2,8-bis(moieties) by  $\text{Mo}(\text{CH}_2\text{tBu})\text{NAr}(\text{tBu})_2\text{Ar}_2\text{C}_6\text{H}_3\text{tPr}_2$  is described. Polymers with degrees of polymerization from 5 to 100 and narrow molecular weight distributions ( $M_w/M_n = 1.05-1.24$ ) were obtained in high yield. All polymers exhibit an enantiomorphic nematic mesophase. Glass transition and isotropization temperatures increase with increasing molecular weight and become independent at approximately 30-50 repeat units. The change in enthalpy of isotropization is relatively independent of molecular weight. Using polymer blends it was shown that polydispersity has no effect on either the transition temperatures or the temperature range of isotropization. Isotropization alternates in an odd-even manner up to spacer lengths of  $n=6$  and then levels off. Living ring opening metathesis polymerization of side chain liquid crystalline polymers (SCLCPs).

**Synthesis of Side-chain Liquid Crystal Polymers by Cyclopolymerisation** Peter Buxton, 1998

**Liquid Crystals** Shri Singh, David A. Dunmur, 2002

Liquid crystals are partially ordered systems without a rigid long range structure. The study of these materials covers a wide area: chemical structure, physical properties and technical applications. Due to their dual nature: anisotropic physical properties of solids and rheological behavior of liquids and easy response to externally applied electric, magnetic, optical and surface fields, liquid crystals are of greatest potential for scientific and technological applications. The subject has come of age and has achieved the status of being a very exciting interdisciplinary field of scientific and industrial research. This book is an outgrowth of the enormous advances made during the last three decades in both our understanding of liquid crystals and our ability to use them in applications. It presents a systematic, self-contained and up-to-date overview of the structure and properties of liquid crystals. It will be of great value to graduates and research workers in condensed matter physics, chemical physics, biology, materials science, chemical and electrical engineering and technology from a materials science and physics viewpoint of liquid crystals.

**Liquid Crystalline**

Polymers Vijay Kumar Thakur, Michael R. Kessler, 2015-11-16 This book introduces anisotropic innovations in liquid crystalline polymers as well as new nanocomposite materials and testing techniques The authors detail the newest discoveries of material properties material types and phases and material characterization This interdisciplinary work creates valuable links that strengthen the approach to the evolving field of liquid crystalline polymers materials The Synthesis and Characterisation of Laterally Attached Side Chain Liquid Crystal Polymers Eric A. Whaley, 1993

*Electro-optic Phenomena in Side-chain Liquid Crystal Polymers* Khalid Hassan Bader Al-Ammar, 1991 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 Synthesis and Structural Studies of Side-chain Liquid Crystal Polymers and Elastomers Andrew J. Symons, 1993 **Synthesis and Characterisation of Chiral Side Chain Liquid Crystal Polymers** David Mearns Duncan, 1997 **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 amide 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      *Liquid Crystal Polymers: From Structures to Applications* A.A. Collyer, 2012-12-06 The subject of liquid crystals and their use in electronic displays and in non linear optical systems has become of tremendous importance during the last decade and the incorporation of liquid crystal units into polymeric materials has led to a group of new materials with diverse properties Some of these properties have been utilized in new products and some have yet to be used Much published work has appeared that deals with specific materials or particular applications and it was felt that a book was needed to examine and explain the underlying principles governing the diverse properties of these liquid crystal polymers LCPs The current work describes the diverse nature of LCPs their synthesis characterization properties and finally their applications It describes the manner in which liquid crystallinity or mesomorphism occurs in small molecules monomer liquid crystals and polymer liquid crystals Chapter 1 gives a classification of the various ways in which the meso gens may be connected to the polymer chains Currently the bulk of LCP material is based on main chain or longitudinal LCPs for use in engineering applications The side chain or comb polymers are intended for use in electronics and opto electronic systems and as surfactants Many other variants and possibilities exist but their properties have not yet been fully studied or used In this respect it is hoped that the current work will indicate future possibilities as well as discussing current opinion v Preface vi Chapters 2 and 3 describe methods of characterizing the mesophases

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