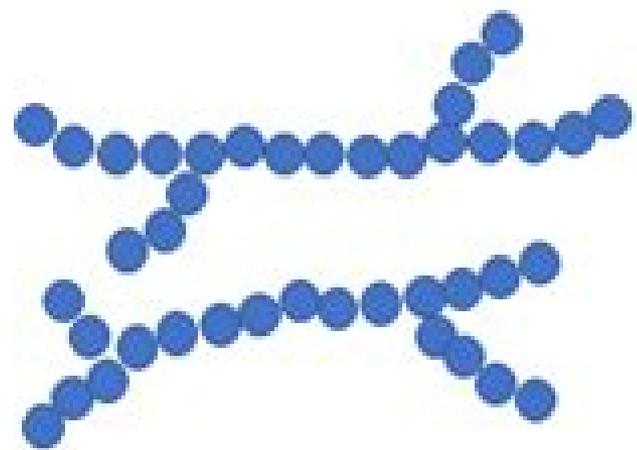
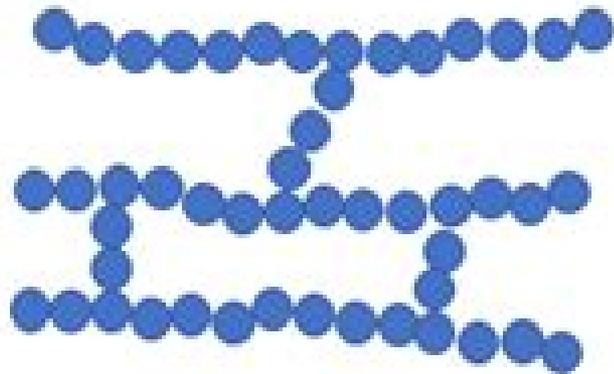




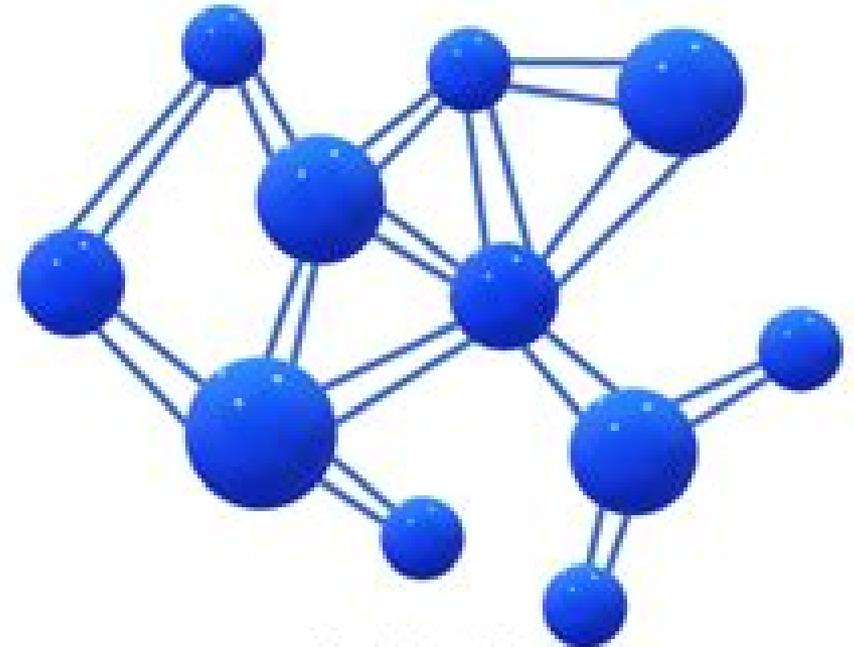
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Structure And Properties Of Oriented Polymers

Ian Ward



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the reader a balanced view of the subject I should like to thank the contributors for their endeavours and especially for their patience in accepting modifications and corrections which make for consistency in the book as a whole I am particularly indebted to Professor Leslie Holliday who originally approached me with the proposition that such a book would be a worthwhile venture and to the publishers who have given me every assistance in making its progress as painless as possible

Structure and Properties of Oriented Polymers Ian M. Ward, 2011-09-01 The first edition was produced at a time when the advantages of studying oriented polymers were just becoming apparent From a scientific stand point it had been demonstrated that greater insight into both structure and properties could be obtained if an oriented polymer was prepared From a technological viewpoint major advances were under way especially in high modulus and high strength fibres Twenty years later it is possible to review the scientific advances which have been made in this area and to provide much wider perspectives for the technology As in the case of the first edition the emphasis is on the methodologies available for characterizing oriented polymers and their mechanical behaviour It is a particular pleasure to thank the contributing authors for their cooperation and Dr Philip Hastings of Chapman Hall for his support and encouragement I am also indebted to Professors A H Windle and D C Bassett for their respective contributions to sections 1.3.1 and 1.3.4 Although this chapter has been extensively revised the contribution of the late Leslie Holliday to the first edition of this book is also acknowledged

Introduction 1 I M Ward 1.1 THE PHENOMENON OF ORIENTATION Orientation in polymers is a phenomenon of great technical and theoretical importance The word orientation itself conveys a number of ideas

STRUCTURE AND

PROPERTIES OF ORIENTED POLYMERS. I.M. Ward (ed), *Developments in Oriented Polymers—2* Ian M. Ward, 1987-03-31 The last four years since the publication of the first of this series have seen further striking developments in both the science and technology of oriented polymers In particular polymers possessing very high degrees of molecular orientation are now quite commonplace and this is reflected by the inclusion of five chapters dealing with ultra high modulus polyethylene fibres oriented liquid crystalline polymers both lyotropics and thermotropics and polydiacetylene single crystal fibres At the same time there is continuing interest in the structure and properties of less highly oriented polymers and in the mechanisms of deformation in polymers It is therefore good to have these themes represented also I should like to thank the contributors for adhering to a rather tight time schedule and the publishers for their cooperation so that this book can provide up to date reviews of the state of the art in a rapidly moving area of polymer science

I M WARD v CONTENTS

Preface v List of Contributors IX 1 Polymer Single Crystal Fibres

Characterization of Surface Structure and Properties in Oriented Polymers Han Yong Lee, N. H. Sung, P. Yuan, C. S. Sung, CONNECTICUT UNIV STORRS INST OF MATERIALS SCIENCE., 1987 New surfaces generated during uniaxial or biaxial stretching of polymer films are substantially different from their unoriented counterparts Changes in surface structure have been characterized by measuring molecular orientation and degree of crystallinity using FT IR ATR dichroism technique Surface properties such as surface tension and

friction coefficient are studied by measuring contact angles and by single stroke friction measurements Uniaxial drawing increases surface crystallinity and molecular orientation in both polypropylene PP and polyethyleneterephthalate PET This also leads to anisotropic friction coefficients when measured parallel and perpendicular to the drawing direction Contact angles measured with four different liquids also exhibit anisotropy in oriented PP and not in PET Surface roughness of drawn PP is directional whereas that of PET is uniform And the possible influence of anisotropic roughness on contact angle measurements are carefully examined Attempts are made to correlate surface properties with surface structural parameters

The Science and Technology of Flexible Packaging Barry A. Morris,2022-07-23 The Science and Technology of Flexible Packaging Multilayer Films from Resin and Process to End Use Second Edition provides a comprehensive guide on plastic films in flexible packaging covering scientific principles materials properties processes and end use considerations Sections discuss the science of multilayer films in a concise and impactful way presenting the fundamental understanding required to improve product design material selection and processes In addition the book includes information on why one material is favored over another and how film or coating affects material properties Descriptions and analysis of key properties of packaging films are provided from engineering and scientific perspectives With essential scientific insights best practice techniques environmental sustainability information and key principles of structure design this book provides information aids in material selection and processing how to shorten development times and deliver stronger products and ways to enable engineers and scientists to deliver superior products with reduced development time and cost Provides essential information on all aspects of multilayer films in flexible packaging including processing properties materials and end use Bridges the gap between scientific principles and practical challenges Includes explanations to assist practitioners in overcoming challenges Enables the reader to address new challenges such as design for sustainability and eCommerce

Handbook of Industrial Polyethylene and Technology Mark A. Spalding,Ananda Chatterjee,2017-10-12 This handbook provides an exhaustive description of polyethylene The 50 chapters are written by some of the most experienced and prominent authors in the field providing a truly unique view of polyethylene The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene high density polyethylene copolymers and polyethylene produced from metallocene catalysts With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing fillers processing aids anti fogging agents pigments and flame retardants Common processing methods including extrusion blown film cast film injection molding and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding fiber processing pipe extrusion reactive extrusion wire and cable and foaming

processes The business of polyethylene including markets world capacity and future prospects are detailed This handbook provides the most current and complete technology assessments and business practices for polyethylene resins The Structure and Properties of Highly Oriented Polymers Robin Nicholas Britton,1977 *Structure and Properties of High-Performance Fibers* Gajanan Bhat,2016-08-21 *Structure and Properties of High Performance Fibers* explores the relationship between the structure and properties of a wide range of high performance fibers Part I covers high performance inorganic fibers including glasses and ceramics plus carbon fibers of various types In Part II high performance synthetic polymer fibers are discussed while Part III reviews those natural fibers that can be used to create advanced textiles The high performance properties of these fibers are related to their chemistry and morphology as well as the ways in which they are synthesized and spun High performance fibers form the basis of textile materials with applications in protection medicine and composite reinforcement Fibers are selected for these technical applications due to their advanced physical mechanical and chemical properties Offers up to date coverage of new and advanced materials for the fiber and textile industries Reviews structure property relationships of high performance inorganic carbon synthetic polymer and natural fibers Includes contributions from an international team of authors edited by an expert in the field Reviews those natural fibers that can be used to create advanced textiles Polymeric Materials Gottfried W. Ehrenstein,2001-01-01 This book is intended to fill the knowledge gap between the chemical structure and the related physical characteristics of plastics necessary for appropriate material selection design and processing The entire spectrum of plastics is addressed including thermoplastics thermosets elastomers and blends It also contains an in depth presentation of the structure property relationships of a wide range of plastics One of the special features is the extensive discussion and explanation of the impact of relationships on processing and vice versa the effect of processing on structure and properties The book contains several application oriented examples and is presented at an intermediate level for both practicing plastic engineers and advanced engineering students

Principles of Polymer Systems Ferdinand Rodriguez,1989 Organized to present the subject clearly to a person with no prior knowledge of polymer systems Serves also as a broadening tool for scientists and engineers with partial experience in the field New edition has added more than 300 general references and over 35 original problems Annotation copyrighted by Book News Inc Portland OR Polymer Science U.S.S.R. ,1985 **Papers Presented at the ... Meeting** American Chemical Society. Division of Polymer Chemistry,1998 *Research in British Universities, Polytechnics and Colleges* ,1979

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