

Structure and Properties of Oriented Polymers

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Structure And Properties Of Oriented Polymers

I.M. Ward (ed)



Structure And Properties Of Oriented Polymers:

Structure and Properties of Oriented Polymers I. Ward, 2013-12-14 It has become increasingly evident that there is much to be gained from a detailed understanding of the structure and properties of polymers in the oriented state This book reflects the growth of interest in this area of polymer science and attempts to give the reader an up to date view of the present position The individual chapters are for the most part self contained and cover a very wide range of topics It is intended that each of them should serve the dual purpose of an expository introduction to the subject and a topical review of recent research It is inevitable that there will be differences of style and approach in the contributions from the different authors No attempt has been made to moderate these differences as they serve to illustrate the diversity of approaches required to give 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 standpoint 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 Ian Ward, 2014-03-21 It has become increasingly evident that there is much to be gained from a detailed understanding of the structure and properties of polymers in the oriented state This book reflects the growth of interest in this area of polymer science and attempts to give the reader an up to date view of the present position The individual chapters are for the most part self contained and cover a very wide range of topics It is intended that each of them should serve the dual purpose of an expository introduction to the subject and a topical review of recent research It is inevitable that there will be differences of style and approach in the contributions from the different authors No attempt has

been made to moderate these differences as they serve to illustrate the diversity of approaches required to give 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. I.M. Ward (ed), **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

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 *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 An Introduction to Plastics Hans-Georg Elias,2003-11-07 Die Leser mussten lange warten Jetzt endlich zehn Jahre nach Erscheinen der ersten Auflage gibt es die grundlegend bearbeitete Neuauflage dieses Klassikers inhaltlich erweitert und neu strukturiert Doch an seinem Konzept hat sich nichts geändert Es ist eine präzise aber nicht mathematische Einführung in das Gebiet der Kunststoffe Die ökonomische Bedeutung von Kunststoffen bzw Polymeren ist weiterhin enorm Höchstes Zeit also für die Neuauflage dieser erfolgreichen Einführung Sie gibt einen aktuellen und ebenso klaren wie detaillierten Überblick über Rohstoffe Herstellungsverfahren und die Materialeigenschaften der Kunststoffe Letztere werden zu den molekularen und supermolekularen Eigenschaften der Polymere in Beziehung gesetzt Die Kapitel zu Polymerverbindungen Morphologie Flie ßverhalten und Verarbeitung wurden gegenüber der ersten Auflage erheblich erweitert Neu hinzugekommen sind Abschnitte zur elektrischen Leitfähigkeit sowie zu nicht linearen optischen Eigenschaften Auch wer über die neuesten Entsorgungsverfahren Bescheid wissen möchte wird von Elias bestens informiert Ein wesentlicher Grund für den Erfolg der Voraufgabe sollte auch ihre Fortsetzung zum Bestseller werden lassen der klare mitunter brillante Stil des Autors So komplex die Materie auch sein mag Elias findet die angemessene sprachliche Form Dass Verständlichkeit in diesem Buch ganz groß geschrieben wird belegen auch sein Aufbau sowie der sehr praktische übersichtliche Index Ob Chemiker Physiker Materialwissenschaftler Ingenieure oder Techniker Wer sich einen Überblick über Kunststoffe und Polymere verschaffen möchte dürfte kaum ein geeigneteres Buch finden *Polymer Microscopy* Linda Sawyer,David T. Grubb,2013-03-09 A practical guide to the study and understanding of the structure of synthetic polymer materials using the complete range of microscopic techniques The major part of the book is devoted to specimen preparation and applications New applications and additional references provide a critical update *The Structure and Properties of Highly Oriented Polymers* Robin Nicholas Britton,1977

The Enigmatic Realm of **Structure And Properties Of Oriented Polymers**: Unleashing the Language is Inner Magic

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