

DEFORMATION AND FRACTURE OF POLYMERS

Monday, April 9, 2018

Wednesday, April 11, 2018

Strengthening Techniques of Polymers

□ Increasing crystallinity

For a specific polymer, increasing the degree of crystallinity can enhance its mechanical properties, since it affects the extent of the intermolecular secondary bonding (van der Waals bonds)

→ stronger secondary bonding

□ Crosslinking

Increasing the degree of crosslinking can strengthen the

Deformation And Fracture Behaviour Of Polymers

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H. Kausch

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

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Deformation and Fracture Behaviour of Polymers Wolfgang Grellmann, Sabine Seidler, 2013-03-09 The application of fracture mechanics to polymers and composites allows the quantitative description of the toughness behaviour by means of fracture mechanics parameters and enables preventive failure analysis In recent years this young scientific discipline has developed rapidly and now the experimental results are looking for more applications in industrial practice However the practical applications of fracture mechanics parameters to structural integrity assessment are severely restricted owing to their limited transferability from specimens to components Indeed geometry independent fracture mechanics parameters are very important for the reliable functioning of polymers and components in nearly all industrial application fields These application fields include the polymer development quality control construction and polymer specific design of reliable components in the motor industry the electrical industry and the manufacture of household appliances as well as applications in information technology and medical applications The present status report on the deformation and fracture behaviour of polymer materials was composed on the basis of revised lectures presented at the Merseburg discussion conference entitled Deformation and Fracture Behaviour of Polymers and additional single contributions The editors and authors have tried hard to present information about the applied fracture mechanics of polymers and composites in the light of their current research work

Deformation and Fracture Behaviour of Polymer Materials Wolfgang Grellmann, Beate Langer, 2017-07-12 This book covers the most recent advances in the deformation and fracture behaviour of polymer material It provides deeper insight into related morphology property correlations of thermoplastics elastomers and polymer resins Each chapter of this book gives a comprehensive review of state of the art methods of materials testing and diagnostics tailored for plastic pipes films and adhesive systems as well as elastomeric components and others The investigation of deformation and fracture behaviour using the experimental methods of fracture mechanics has been the subject of intense research during the last decade In a systematic manner modern aspects of fracture mechanics in the industrial application of polymers for bridging basic research and industrial development are illustrated by multifarious examples of innovative materials usage This book will be of value to scientists engineers and in polymer materials science

Fracture Behaviour of Polymers A.J. Kinloch, 2013-04-17 Over recent years there has been a tremendous upsurge in interest in the fracture behaviour of polymers One reason for this is the increasing use of polymers in structural engineering applications since in such circumstances it is essential to have as complete an understanding as possible of the polymer's fracture behaviour This book is designed to meet the requirements of those who need to be informed of the latest developments in the field of polymer fracture It is written particularly for research workers but it should also prove invaluable for advanced students taking final year undergraduate or postgraduate courses The main emphasis is upon the use of fracture mechanics in the study of polymer fracture but this approach is then developed to cover the micromechanisms

of the fracture process Particular prominence is given to the relationship between structure mechanical properties and the mechanics and mechanisms of fracture The first chapter is a brief introduction which has several aims One is to introduce polymers to the reader who does not have a strong background in the subject and another is to provide background material that will be used at later stages The book is then split into two main parts the first deals with the mechanics and mechanisms whilst the second is concerned with materials In Part I phenomena such as molecular fracture fracture mechanics shear yielding and crazing are covered from a general viewpoint The Physics of Deformation and Fracture of Polymers A. S. Argon, 2013-03-07 A physical mechanism based presentation of the plasticity and fracture of polymers covering industrial scale applications through to nanoscale biofluidic devices *Temperature-dependent Deformation and Fracture Behavior of a Talcum-filled Co-polymer* David Degenhardt, 2020-04-18 David Degenhardt develops an elasto viscoplastic material model in order to predict the temperature and strain rate dependent deformation and fracture behavior of thermoplastic polymers The model bases on three supporting ambient temperatures where a thermoplastic polymer has been characterized profoundly at the stress states 1 uni axial tension and compression 2 bi axial tension and 3 shear The core of the material model builds a pressure dependent yield function with a non associated flow rule Further it contains an analytical hardening law and a strain rate dependent fracture criterion The model is validated with components subjected to impact loading at different ambient temperatures The comparison of the simulation and the experiments shows that stiffness hardening fractures strain as well as thicknesses can be well captured About the Author David Degenhardt is a calculation engineer in the chassis development department of a German automobile manufacturer and earned his doctorate while working at the Technische Universität Carolo Wilhelmina zu Braunschweig Germany Deformation and Fracture of High Polymers H. Kausch, 2013-06-29 **Applied Polymer Science** Ulf W. Gedde, Mikael S. Hedenqvist, Minna Hakkarainen, Fritjof Nilsson, Oisik Das, 2021-10-29 This companion volume to Fundamental Polymer Science Gedde and Hedenqvist 2019 offers detailed insights from leading practitioners into experimental methods simulation and modelling mechanical and transport properties processing and sustainability issues Separate chapters are devoted to thermal analysis microscopy spectroscopy scattering methods and chromatography Special problems and pitfalls related to the study of polymers are addressed Careful editing for consistency and cross referencing among the chapters high quality graphics worked out examples and numerous references to the specialist literature make Applied Polymer Science an essential reference for advanced students and practicing chemists physicists and engineers who want to solve problems with the use of polymeric materials Mechanical Properties of Polymers based on Nanostructure and Morphology G. H. Michler, F. J. Baltá-Calleja, 2016-04-19 The improvement of strength and durability in polymers has implications relevant to industrial medical and household applications Enhanced by the improved knowledge of the interactions between complex hierarchical structures and functional requirements Mechanical Properties of Polymers Based on Nanostructure and Morphology focuses on new polymeric

Polymer Fracture H. - H. Kausch, 2012-12-06 This book on Polymer Fracture might as well have been called Kinetic Theory of Polymer Fracture The term kinetic theory however needs some definition or at least some explanation A kinetic theory deals with and particularly considers the effect of the existence and discrete size of the motion and of the physical properties of molecules on the macroscopic behavior of an ensemble gaseous or other A kinetic theory of strength does have to consider additional aspects such as elastic and anelastic deformations chemical and physical reactions and the sequence and distribution of different disintegration steps In the last fifteen years considerable progress has been made in the latter domains The deformation and rupture of molecular chains crystals and morphological structures have been intensively investigated The understanding of the effect of those processes on the strength of polymeric materials has especially been furthered by the development and application of spectroscopical methods ESR IR and of the tools of fracture mechanics It is the aim of this book to relate the conventional and successful statistical parametrical and continuum mechanical treatment of fracture phenomena to new results on the behavior of highly stressed molecular chains

Properties of Polymers D.W. van Krevelen, Klaas te Nijenhuis, 2009-02-09 This authoritative widely cited book has been used all over the world *Properties of Polymers* Fourth Edition incorporates the latest developments in the field while maintaining the core objectives of previous editions to correlate properties with chemical structure and to describe methods that permit the estimation and prediction of numerical properties from chemical structure i.e. nearly all properties of the solid liquid and dissolved states of polymers Extends coverage of critical topics such as electrical and magnetic properties rheological properties of polymer melts and environmental behavior and failure Discusses liquid crystalline polymers across chapters 6 15 and 16 for greater breadth and depth of coverage Increases the number of supporting illustrations from approximately 250 in the previous edition to more than 400 to further aid in visual understanding

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