



D.W. van Krevelen *
K. te Nijenhuis

Properties of Polymers

Their Correlation with Chemical Structure;
their Numerical Estimation and Prediction
from Additive Group Contributions

FOURTH
COMPLETELY
REVISED
EDITION

Properties Of Polymers Their Estimation And Correlation With Chemical Structure

D. W. van Krevelen



Properties Of Polymers Their Estimation And Correlation With Chemical Structure:

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 *Properties of Polymers : Their Estimation and Correlations with Chemical Structure* Dirk W. van Krevelen, 1976

Properties of Polymers D.W. van Krevelen, 2012-12-02 Properties of Polymers Their Correlation with Chemical Structure Their Numerical Estimation and Prediction from Additive Group Contributions summarizes the latest developments regarding polymers their properties in relation to chemical structure and methods for estimating and predicting numerical properties from chemical structure In particular it examines polymer electrical properties magnetic properties and mechanical properties as well as their crystallization and environmental behavior and failure The rheological properties of polymer melts and polymer solutions are also considered Organized into seven parts encompassing 27 chapters this book begins with an overview of polymer science and engineering including the typology of polymers and their properties It then turns to a discussion of thermophysical properties from transition temperatures to volumetric and calorimetric properties along with the cohesive aspects and conformation statistics It also introduces the reader to the behavior of polymers in electromagnetic and mechanical fields of force The book covers the quantities that influence the transport of heat momentum and matter particularly heat conductivity viscosity and diffusivity properties that control the chemical stability and breakdown of polymers and polymer properties as an integral concept with emphasis on processing and product properties Readers will find tables that give valuable numerical data on polymers and include a survey of the group contributions increments of almost every additive function considered This book is a valuable resource for anyone working on practical problems in the field of polymers including organic chemists chemical engineers polymer processors polymer technologists and both graduate and PhD students

PROPERTIES POLYMERS 3RD COMPL.REV. Dirk Willem Krevelen, 1990-12-17 Hardbound As a source of data and for estimations of properties to be expected this book is now widely used all over the world This Third Edition is thoroughly revised and updated Its objectives as for the previous two editions are 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 New are chapters and sub chapters discussing extended chain polymers

liquid crystal polymers and high performance polymers De Gennes scaling concept of polymer solutions physical ageing acoustic properties the dual mode permeation theory the decomposition temperature and polymer reinforcing constructions The chapters and sub chapters on molecular mass distribution glass and crystalline melt temperatures equations of state and on failure mechanisms have been greatly extended Properties of Polymers, Their Estimation and Correlation with Chemical Structure Dirk Willem Krevelen, P. J. Hoftyzer, 1976 *Properties of polymers : their correlation with chemical structure ; their numerical estimation and prediction from additive group contributions* D. W. van Krevelen, 2009

Properties of Polymers Dirk Willem van Krevelen, Dirk Willem Krevelen, K. te Nijenhuis, 2009 This authoritative widely cited book has been used all over the world The 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 **Optical Fiber Sensor Technology** L.S. Grattan, B.T. Meggitt, 2013-03-09 Systems and Applications in Optical Fiber Sensor Technology The essential technology which underpins developments in optical fiber sensors continues to expand and continues to be driven to a very large extent by advances in optoelectronics which have been produced for the ever expanding optical communications systems and networks of the world The steps forward in the technology often accompanied by a reduction in the price of associated components have been and continue to be adapted for use in a wide variety of optical fiber sensor systems These include for example the use of photoinduced gratings as fiber sensor components coupled with the wider availability of shorter wavelength lasers bright luminescent sources and high sensitivity detectors which have opened up new possibilities for both novel fiber optic sensor applications and new sensing systems This is to be welcomed at a time when coupled with integrated optic miniaturized devices and detectors real possibilities of systems integration at lower cost and increased utility can be offered The fiber laser and the expansions of the types and availability of the doped fiber on which it is based offer further examples of the integration of the essential components of advanced optical sensor systems fitted for a new range of applications **Polymer Synthesis: Theory and Practice** Dietrich Braun, Harald Cherdron, Matthias Rehahn, Helmut Ritter, Brigitte Voit, 2012-12-13 Emphasis is on a broad description of the general methods and processes for the synthesis modification and characterization of macromolecules These more fundamental chapters will be supplemented by selected and detailed experiments In addition to the preparative aspects the book also gives the reader an impression on the relation of chemical constitution and morphology of Polymers to their properties as well as on their application areas Thus an

additional textbook will not be needed in order to understand the experiments The 5th edition contains numerous changes In recent years so called functional polymers which have special electrical electronic optical and biological properties have gained more and more in interest This textbook was therefore supplemented by recipes which describe the synthesis of these materials in a new chapter Functional polymers Together with new experiments in chapter 3 4 and 5 the book now contains more than 120 recipes that describe a wide range of macromolecules From the reviews of recent editions This is an excellent book for all polymer chemists engaged in synthesis research studies and education It is educationally sound and has excellent laboratory synthetic examples The fundamentals are well done for the teaching of students and references are reasonably up to date As in previous issues there are sections dealing with an introduction structure and nomenclature methods and techniques for synthesis characterization processing and modification of polymers The authors have noted the following changes from previous editions a new section on correlations of structure morphology and properties revision and enlargement of other property and characterization procedures additional new experiments such as controlled radical polymerization enzymatic polymerizations microemulsions and electrical conducting polymers This is a high quality textbook at a reasonable price and should be considered as a suitable reference for all engaged in synthetic areas of polymer research Eli M Pearce Polytechnic University Brooklyn NY USA

Handbook of Condensation Thermoplastic Elastomers Stoyko Fakirov, 2006-05-12 Reporting on the work of an international team of scientists actively involved in the study of thermoplastic elastomers TPE based on polyesters polyamides and polyurethanes this book is the first to provide a detailed description of condensation TPE with close attention paid to polyamide based systems Reflecting the increasing importance of TPE as engineering plastics the authors discuss the widened application opportunities by preparing systems with various chemical compositions and molecular structures as semi interpenetrating networks The contents also cover the chemical aspects physical structure and properties life cycle assessment and recycling possibilities as well as such unique smart properties like the shape memory effect of the three classes of thermoplastic elastomers *Polymer Characterization* Dan Campbell, Richard A. Pethrick, Jim R. White, 2017-12-21 Discerning the properties of polymers and polymer based materials requires a good understanding of characterization This revised and updated text provides a comprehensive survey of characterization methods within its simple concise chapters *Polymer Characterization Physical Techniques* provides an overview of a wide variety of characterization methods which makes it an excellent textbook and reference It starts with a description of basic polymer science providing a solid foundation from which to understand the key physical characterization techniques The authors explain physical principles without heavy theory and give special emphasis to the application of the techniques to polymers with plenty of illustrations Topics covered include molecular weight determination molecular and structural characterization by spectroscopic techniques morphology and structural characterization by microscopy and diffraction and thermal analysis This edition contains a new chapter on surface analysis as well as some revised problems and

solutions The concise treatment of each topic offers even those with little prior knowledge of the subject an accessible source to relevant simple descriptions in a well organized format *Handbook of Polymer-Liquid Interaction Parameters and Solubility Parameters* Allan F.M. Barton, 2018-05-02 Now available for the first time this valuable reference presents polymer solubility parameters and various polymer liquid interaction parameters in an easy to use form It critically evaluates and comprehensively compiles data from original sources It presents these quantities polymer by polymer alphabetically by polymer common chemical name fully cross referenced by systematic chemical names alternative names and trade names This one of a kind handbook summarizes the relationship between the various quantities and their methods of determination This resource is an absolute must for all who are interested in the chemical industry specifically polymer chemistry chemical engineering applied chemistry and physical chemistry *Thermosetting Polymers* Jean-Pierre Pascault, Henry Sautereau, Jacques Verdu, Roberto J. J. Williams, 2002-02-20 Provides comprehensive coverage of the most recent developments in the theory of non Archimedean pseudo differential equations and its application to stochastics and mathematical physics offering current methods of construction for stochastic processes in the field of p adic numbers and related structures Develops a new theory for parabolic equations *Hansen Solubility Parameters* Charles M. Hansen, 2007-06-15 Hansen solubility parameters HSPs are used to predict molecular affinities solubility and solubility related phenomena Revised and updated throughout Hansen Solubility Parameters A User's Handbook Second Edition features the three Hansen solubility parameters for over 1200 chemicals and correlations for over 400 materials including p

Recent Progress in Solid Dispersion Technology Kohsaku Kawakami, 2019-10-01 Amorphous solid dispersion ASD is a powerful formulation technology to improve oral absorption of poorly soluble drugs Despite their being in existence for more than half a century controlling ASD performance is still regarded as difficult because of ASD's natural non equilibrium However recent significant advances in ASD knowledge and technology may enable a much broader use of ASD technology This Special Issue which includes 3 reviews and 6 original articles focuses on recent progresses in ASD technology in hopes of helping to accelerate developmental studies in the pharmaceutical industry In striving for a deep understanding of ASD non equilibrium behavior the Special issue also delves into and makes progress in the theory of soft matter dynamics

Advanced Fibre-Reinforced Polymer (FRP) Composites for Structural Applications Jiping Bai, 2013-09-30 Advanced fibre reinforced polymer FRP composites have become essential materials for the building of new structures and for the repair of existing infrastructure Advanced fibre reinforced polymer FRP composites for structural applications provides an overview of different advanced FRP composites and the use of these materials in a variety of application areas Part one introduces materials used in the creation of advanced FRP composites including polyester vinyl ester and epoxy resins Part two goes on to explore the processing and fabrication of advanced FRP composites and includes chapters on prepreg processing and filament winding processes Part three highlights properties of advanced FRP composites and

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Paint and Surface Coatings R Lambourne,T A Strivens,1999-08-23 This second edition of an established and well received book has been carefully revised in many instances by the original authors and enlarged by the addition of two completely new chapters These deal with the use of computers in the paint industry and with the increasingly important subject of health and safety The chapter on pigments has also been re written by an author new to this edition It was the editor s intention in the first edition to provide science graduates entering the paint industry with a bridge between academia and the applied science and technology of paints The great strength and appeal of this book remains that it deals with the technology of paints and surface coatings while also providing a basic understanding of the chemistry and physics of coatings Extensive revision of first edition New chapter on computers and modelling New chapter on health and safety

Designing with Plastics P. R. Lewis,1993 In this report Dr Lewis surveys the current state of the art in designing with plastics in terms of materials properties and processing technologies He also considers the legal implications of intellectual property and product liability as well as ergonomic and aesthetic design parts consolidation and recyclability His review is supported throughout by references to key processes and applications including many well known consumer products and further information can be derived from the 435 abstracts of published papers which complete the report

Fluoroplastics, Volume 1 Sina Ebnesajjad,2000-05-01 Today a generational change is taking place in the fluoropolymer industry The pioneers of PTFE developed an astonishing mass of basic and applied technical work Now many of these experts are retiring and a new generation is taking their place This new generation brings a plethora of skills built upon the basic knowledge of fluoropolymer technology Speaking to the needs of today s engineering and science students and practicing professionals this book provides an in depth treatment of homofluoropolymer polymerization and part fabrication technology A comprehensive range of issues surrounding the manufacturing of the monomer polymer fabrication end use safety and disposal are covered The book has been arranged to allow self managed reading and learning It is both a source of data and a reference

Membrane Reactor Engineering Angelo Basile,Marcello De Falco,Gabriele Centi,Gaetano Iaquaniello,2016-09-19 Uniquely focussed on the engineering aspects of membrane reactors Provides tools for analysis with

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