

Antioxidative Stabilization of Polymers

*Yu. A. Sblyapnikov,
S. G. Kiryushkin and
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Antioxidative Stabilization Of Polymers

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Handbook of Antioxidants Evgeny T. Denisov, Taissa Denisova, 1999-11-11 Designed for scientists and engineers involved in the chemistry and technology of antioxidants, the Second Edition of this popular handbook continues to provide comprehensive data on the thermodynamics and reactivity of antioxidants. Fully revised and updated, the Second Edition provides the latest data on antioxidants and polymer stabilizers, new data for biological antioxidants, a corrected list of bond dissociation energies, and a full bibliography. Additions and changes in the New Edition: The latest data on O-H bond dissociation energies of phenols and the new scale for these values; Thermodynamic functions of antioxidants and their intermediates presented in tables; A table with current data on dissociation energies of C-H bonds of hydrocarbons and oxygen-containing compounds; Rate constants and activation energies of reactions of antioxidants with ozone, nitrogen dioxide, and hydroperoxide; Kinetic characteristics of benzoquinone reactions with antioxidants; Rate constants of free radical generation through biomolecular reactions with ozone, nitrogen dioxide, and hydroperoxide. All calculated data from the first edition has been recalculated in accordance with new data on dissociation

energies and parameters of reactivity Data on thermodynamics of hydrogen bond formation of antioxidants All data on cyclic mechanisms of chain termination by antioxidants collected into a special chapter Special chapters on bioantioxidants and stabilization of polymers The Handbook of Antioxidants puts essential data at your fingertips Its comprehensive nature and ease of use make it the resource for scientific researchers and engineers working in the field of physical chemistry of antioxidants

Kinetic and Thermodynamic Aspects of Polymer Stability Gennadiĭ Efremovich Zaikov, 1996 Kinetic Thermodynamic Aspects of Polymer Stability *Stabilization of Polymeric Materials* Hans Zweifel, 2012-12-06 Plastics are used worldwide in everyday life e g as food packaging electronics construction automotive parts and household appliances To produce these products with the desired service lifetimes the use of suitable stabilizers is necessary This book provides a concise and comprehensive overview of the basic mechanisms of plastic degradation processes caused by heat and light At its core is a detailed description of the stabilization of different polymers including an explanation of stabilization mechanisms and the influence of commonly used additives such as fillers flame retardants and pigments on the stability of plastic Every polymer scientist material technologist or application engineer dealing with the design of the properties of plastics will benefit from this new overview

Polymers, Phosphors, and Voltaics for Radioisotope Microbatteries Kenneth E. Bower, Yuri A. Barbanel, Yuri G. Shreter, George W. Bohnert, 2002-06-19 As the first book written solely on the subject of nuclear batteries and their potential to revolutionize the electronics industry this text will appeal to a broad audience from engineers to energy policy makers This collection of contributions from leading U S and Russian nuclear researchers contains diverse discussions of the problems of using radioactive material for microelectronic power needs and it guides readers to future research in the area of long life high energy density batteries It describes the state of interdisciplinary research in radiochemistry tritium storage semiconductor fabrication integration into MEMS and other electronic devices and much more

Stabilization of Polymers and Stabilizer Processes American Chemical Society, Norbert A. J. Platzer, American Chemical Society. Division of Industrial and Engineering Chemistry, 1967

Interactions of Polymers with Bioactive and Corrosive Media Gennady Zaikov, Iordanskii, Rudakova, 2023-01-27 Natural polymers have always been used in medicine However the development of synthetic polymers for use in medicine has occurred only in the last few decades The successful applications of these synthetic polymers in medicine depend mainly on their physico chemical and special characteristics such as biological compatibility with tissues stability durability and elasticity This book deals mainly with the kinetic and structural aspects which are essential for the realization of these characteristics The authors have examined in detail the processes of diffusion chemical and biological diintegration changes in various structural levels induced by chemical and biological media and the problems of simultaneous influence of these media and mechanical strains on polymers used in medicine Researchers in the field of polymer physics and chemistry as well as those who are working with applications of polymers in medicine and biology should find this book useful

Handbook of Polymer

Degradation S. Halim Hamid, 2000-06-30 Covers recent advances in polymer degradation and stabilization Focuses on the basics of photo and bio degradability Delineates special and general environmental parameters such as solar irradiation temperature and agrochemical exposure Surveys plastic waste disposal strategies such as recycling incineration chemical recovery by pyrolysis and source reduction *Interactions of Polymers With Bioactive And Corrosive Media* T. E. Rudakova, Gennadii Efremovich Zaikov, Gennadij E. Zaikov, 1994 The successful applications of synthetic polymers in medicine depend mainly on their physico chemical and special characteristics This book deals mainly with the kinetic and structural aspects which are essential for the realization of these characteristics *Photostabilization of Polymers* J.F. Rabek, 2012-12-06 During the last two decades the production of polymers and plastics has been increasing rapidly In spite of developing new polymers and polymeric materials only 40 60 are used commercially on a large scale It has been estimated that half of the annual production of polymers is employed outdoors Increasing the stability of polymers and plastics towards heat light atmospheric oxygen and other environmental agents and weathering conditions has always been a very important problem The photochemical instability of most of polymers limits them to outdoor application where they are photo degraded fast over periods ranging from months to a few years To the despair of technologists and consumers alike photodegradation and environmental ageing of polymers occur much faster than can be expected from knowledge collected in laboratories In many cases improved methods of preparation and purification of both monomers and polymers yield products of better quality and higher resistance to heat and light However without stabilization of polymers by application of antioxidants to decrease thermal oxidative degradation and photostabilizers to decrease photo oxidative degradation it would be impossible to employ polymers and plastics in everyday use **Antioxidant Polymers** Giuseppe Cirillo, Francesca Iemma, 2012-06-07 Antioxidant Polymers is an exhaustive overview of the recent developments in the field of polymeric materials showing antioxidant properties This research area has grown rapidly in the last decade because antioxidant polymers have wide industry applications ranging from materials science to biomedical pharmaceuticals and cosmetics Mechanisms of Polymer Degradation and Stabilisation G. Scott, 2012-12-06 The purpose of this publication is two fold In the first place it is intended to review progress in the development of practical stabilising systems for a wide range of polymers and applications A complementary and ultimately more important objective is to accommodate these practical developments within the framework of antioxidant theory since there can be little question that further major advances in the practice of stabilisation technology will only be possible on a firm mechanistic foundation With the continual increase in the number of commercial antioxidants and stabilisers often functioning by mechanisms not even considered ten years ago there is a need for a general theory which will allow the potential user to predict the performance of a particular antioxidant structure under specific practical conditions Any such predictive tool must involve a simplified kinetic approach to inhibited oxidation and in Chapter 1 Denisov outlines a possible mechanistic approach with the potential to predict the most useful antioxidant to use and the

limits of its usefulness In Chapter 2 Schwetlick reviews the current state of knowledge on the antioxidant mechanisms of the phosphite esters with particular emphasis on their catalytic peroxidolytic activity Dithiophosphate v vi PREFACE derivatives show a similar behaviour but for quite different reasons and in Chapter 3 AI Malaika reviews information available from analytical studies particularly using ³¹P-NMR spectroscopy to elucidate the complex chemistry that leads to the formation of the antioxidant active agents

Polymer and Biopolymer Analysis and Characterization Gennadii Efremovich Zaikov, Alfonso Jiménez, 2007 CONTENTS Preface Particle boards based on rice husk Stabilisation of polymers with natural antioxidants Mechanical performance of composites based on ethylene vinyl acetate (EVA) matrix with powdered in filler Prediction of mechanical behaviour of HDPE/PP blends from solubility parameters Bio damages of materials Adhesion of microorganisms on materials surface Intensification of dust removal process of complex aerohydrodynamic research and the effectiveness of arresting dispersed particles for barbotage rotation Application of a model based on consecutive reactions to polymer degradation Transport of water as structurally sensitive process characterising morphology of biodegradable polymer systems Retention Volumes of organic substances on the ester phases Clay filled rigid polyurethane foams Kinetics of bimolecular radicals decay in different polymeric matrixes Mechanism of generation of stable nitrogen containing radicals in the presence of nitrogen oxides Hard and soft approaches to analysis of kinetic data Free radical mechanisms of formation of polysaccharides radiation destruction products Generalisation of effects of solvent polymer interaction by means of linear multi parametric equations Index

Handbook of Polymer Research Gennadii Efremovich Zaikov, 2006 Polymers are substances containing a large number of structural units joined by the same type of linkage These substances often form into a chain like structure Starch cellulose and rubber all possess polymeric properties Today the polymer industry has grown to be larger than the aluminium copper and steel industries combined Polymers already have a range of applications that far exceeds that of any other class of material available to man Current applications extend from adhesives coatings foams and packaging materials to textile and industrial fibres elastomers and structural plastics Polymers are also used for most composites electronic devices biomedical devices optical devices and precursors for many newly developed high tech ceramics This new volume presents leading edge research in this rapidly changing and evolving field

Basic Research in Polymer and Monomer Chemistry James W. Summers, Gennadii Efremovich Zaikov, 2006 This book is dedicated to key issues in polymer and monomer chemistry

Chromatography for Sustainable Polymeric Materials Ann-Christine Albertsson, Minna Hakkarainen, 2008-04-30 With the highest impact factor of all publications ranked by ISI within Polymer Science this collection of short and concise reports on the physics and chemistry of polymers each written by world renowned experts is still valid and useful after 10 years

Polymer Degradation and Stabilization W. L. Hawkins, 2012-12-06 The development of polymers as an important class of material was inhibited at the first by the premature failure of these versatile compounds in many applications The deterioration of important properties of both

natural and synthetic polymers is the result of irreversible changes in composition and structure of polymers molecules As a result of these reactions mechanical electrical and or aesthetic properties are degraded beyond acceptable limits It is now generally recognized that stabilization against degradation is necessary if the useful life of polymers is to be extended sufficiently to meet design requirements for long term applications Polymers degrade by a wide variety of mechanisms several of which affect all polymers through to varying degree This monograph will concentrate on those degradation mechanisms which result from reactions of polymers with oxygen in its various forms and which are accelerated by heat and or radiation Those stabilization mechanisms are discussed which are based on an understanding of degradation reaction mechanisms that are reasonably well established The stabilization of polymers is still undergoing a transition from an art to a science as mechanisms of degradation become more fully developed A scientific approach to stabilization can only be approached when there is an understanding of the reactions that lead to degradation Stabilization against biodegradation and burning will not be discussed since there is not a clear understanding of how polymers degrade under these conditions

Encyclopedia of Polymer Science and Technology, Concise Herman F. Mark, 2013-10-16 The compact affordable reference revised and updated The Encyclopedia of Polymer Science and Technology Concise Third Edition provides the key information from the complete twelve volume Mark s Encyclopedia in an affordable condensed format Completely revised and updated this user friendly desk reference offers quick access to all areas of polymer science including important advances in nanotechnology imaging and analytical techniques controlled polymer architecture biomimetics and more all in one volume Like the twelve volume full edition the Encyclopedia of Polymer Science and Technology Concise Third Edition provides both SI and common units carefully selected key references for each article and hundreds of tables charts figures and graphs

Analytical Tools and Industrial Applications for Chemical Processes and Polymeric Materials Slavcho Kirillov Rakovsky, Ryszard Kozłowski, Nekane Guarrotxena, 2013-12-12 In a unified treatment for the broad subject of materials this book presents some fascinating phenomena associated with the remarkable performance of polymers and chemical materials It provides a comprehensive description of the applications and tools for chemical polymeric materials It also includes the background information necessary for assi

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