

NEW CONCEPTS IN
POLYMER SCIENCE

Ecological Aspects of Polymer Flame Retardancy

S.M. Lomakin and G.E. Zaikov



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Modern Polymer Flame Retardancy New Concepts In Polymer Science

**Kalugina, Gumargalieva, Gennady
Zaikov**



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Lomakin, Gennady Zaikov, 2003 There are obvious benefits in using flame retardants as many human lives and property are saved from fire A large number of compounds have been identified as being used as flame retardants At present knowledge of long term effects resulting from exposure to flame retardants and their breakdown products is limited The aim of this volume in the book series New Concepts in Polymer Science is to provide a general overview of the nature mechanism of action use and environmental hazards for a number of flame retardants This monograph together with the book by the same authors Ecological Aspects of Polymer Flame Retardancy 1999 will be valuable to anyone interested in the field of flame retardant chemicals Modern Polymer Flame Retardancy S.M. Lomakin, 2023 There are obvious benefits in using flame retardants as many human lives and property are saved from fire A large number of compounds have been identified as being used as flame retardants At present knowledge of long term effects resulting from exposure to flame retardants and their breakdown products is limited The aim of this volume in the book series New Concepts in Polymer Science is to provide a general overview of the nature mechanism of action use and environmental hazards for a number of flame retardants This monograph together with the book by the same authors Ecological Aspects of Polymer Flame Retardancy 1999 will be valuable to anyone interested in the field of flame retardant chemicals *Cyclolinear Organosilicon Copolymers: Synthesis,*

Properties, Application O.V. Mukbaniani, G.E. Zaikov, 2023-01-06 The demand for organosilicon elastomers used in the production of thermally resistant rubbers and organosilicon polymers for making non metal composite materials is increasing from year to year This monograph presents a discussion on the methods used for synthesizing and studying properties of newly designed organosilicon polymers namely organosil *Structure of the Polymer Amorphous State* Kozlov, Gennady Zaikov, 2004-02-01 The basic problem of polymer physics is obtaining a structure properties correlations for their future application for practical purposes However these cannot be obtained without the development of a quantitative model of the polymer structure This problem has been actively investigated during the last 45 years *Flame Retardants* Johannes Karl Fink, 2020-08-18 This book focuses on the chemistry and applications of flame retardants for polymers and other materials It starts with a description and types of flame retardants as well as their properties and chemical structures to include chlorine

and bromine containing flame retardants phosphorus based flame retardants nitrogen based flame retardants and silicones Inorganic materials that serve as flame retardants such as boron based additives graphenes and others are discussed in detail In addition the following subjects are discussed in detail Flame retardant polymers The mechanisms of flame retardants such as flame cooling synergetic effects degradation of flame retardants and others Other flame retardant compositions such as dripping inhibitors and smoke suppressants Testing methods for flame retardants international standards human health hazards such as smoke toxicity and problems with wastes Synthesis and fabrication methods as well as recycling methods The application of flame retardants to the coating material using 3D printing reactive coating and bulk addition methods Non burning comonomers foams nanocomposites and bio based materials Flame retardants with other textiles such as wool and electrical applications such as batteries

Photodegradation and Light Stabilization of Heterochain Polymers Niyazi, Savenkova, 2006-11-14 Photodegradation and light stabilization are very important aspects of polymer aging Polymer degradation includes different types of processes thermodegradation oxidation acting of ozone photodegradation radiation hydrolysis mechanical degradation and biodegradation It is very important to know the mechanism of polymer degradation in order to select stabilizers against the degradation This volume presents the analysis of achievements in the field of photodegradation of polymers It includes first of all data of Russian investigators who have decisively contributed in the development of this field of knowledge the schools headed by academicians V V Korshak N M Emanuel N S Enikolopov A A Berlin and many others

Thermal Oxidation of Polymer Blends Lyudmila Shibryaeva, Anatoly Popov, Gennady Zaikov, 2006-06-08 To identify the specific features of the kinetics of oxidation of polymer mixtures determine the key structural elements and create a model that can describe the mechanism of thermal oxidation of polymer mixtures it is necessary to determine the relation between the initial structure of a polymer mixture structural rearrangements associated with oxidation and the kinetics of the process The aim of this book is to elucidate the complicated problem concerning the connection between the structure and mechanism of oxidation of heterogeneous and heterophase polymer systems The material presented in this book concerns the specific features of the kinetics of oxidation and those of the structure of polymer systems The book deals with an analysis of the key factors that can affect principally the mechanism of thermal oxidation of polymer mixtures determines the role of the phase morphology structure of components and the interface layer or boundary in the kinetics of oxidation of heterophase system by an example of mixtures of polyolefines Along with the kinetics of oxidation of heterophase systems problems of investigation of their structural parameters in the oxidized state are considered With this aim the material presented in the book concerns not only the mechanism of oxidation of polymer mixtures but also homopolymers of diverse morphology and model systems

The Structural Stabilization of Polymers: Fractal Models Kozlov, Gennady Zaikov, 2006-07-01 This monograph deals with the structural aspects of transport processes of gases physical ageing and thermo oxidative degradation of polymers in detail Fractal analysis cluster

models of the polymer structure as amorphous state as well as irreversible aggregation models are used as main structural models. It is shown that the polymer structure

Biocide Guanidine Containing Polymers: Sivov, 2006-03-23 This volume deals with chemistry of polyelectrolytes namely biocide guanidine containing polymers discussing both synthesis of new guanidine containing monomers of diallyl and acrylic nature and their structure and investigation of their radical copolymerization and properties of new copolymers. The first parts of the book describe radical polymerization of these monomers and their copolymerization with diallyldialkylammonium derivatives features of their kinetic behavior in these processes for example polymerization rates reactivity ratios. The sections on physical chemical methods IR NMR DSC etc are especially important for studying of structure and properties of synthesized monomer and polymer compounds. The book is finely illustrated with about hundred original figures schemes and tables including kinetics NMR IR spectroscopy biocide and other data.

Elementorganic Monomers: Technology, Properties, Applications Khananashvili, Mukbaniani, Gennady Zaikov, 2006-06-09 New fields of science and technology call for new materials with valuable performance characteristics. Long term resistance to such temperatures can be found only in polymers with chains made up of thermostable fragments. Particularly interesting in this respect are elementorganic polymers with inorganic and organo inorganic molecular chains. Elementorganic polymers are not only highly thermostable but also perform well under low temperatures sunlight humidity weather etc. Thus these polymers especially silicones are widely and effectively used in the electrical radio coal mechanical rubber aircraft metallurgical textile and other industries. They are of great utility not only in industry but also in households and in medicine where their merits can hardly be overestimated. The need to publish this book arose with the scientific and technical developments of the last decade the reconstruction and technical renovation of existing factories as well as fundamental changes in some syntheses of elementorganic monomers and polymers. Moreover nowadays it is essential to train highly skilled chemical engineers with a comprehensive knowledge of current chemistry of the production technology of elementorganic monomers and polymers and of their characteristics and applications.

Polymers for Packaging and Containers in Food Industry Sukhareva, Yakovlev, Legonkova, 2008-08-22 This book delineates the scientific principles of design and fabrication of packaging materials for food as well as methods for structural modification and other techniques. It describes the main practical properties and applications of polymer materials and highlights the analysis of all processes taking place during formations and destruction of

New Trends in Biochemical Physics Research Sergei Dmitrievich Varfolomeev, 2007 This book presents recent research in chemical and biochemical physics. Chemical physics addresses a large range of problems. An effective chemical physicist is a jack of all trades able to apply the principles and techniques of the field to everything from high tech materials to biology. Just as the fields of chemistry and physics have expanded so have chemical physics subject areas which include polymers materials surfaces interfaces and biological macromolecules along with the traditional small molecule and condensed phase systems. Biochemical physics is a science that joins the three natural

sciences biology chemistry and physics into one comprehensive study N M Emanuel pioneered this science over fifty years ago This book brings together papers written by Emanuel s students which reveal recent developments in this interesting field The Concept of Micellar-Sponge Nanophases in Chemical Physics of Polymers Yuri Arsenovich Mikheev, Gennady Zaikov, 2004-04-01 The monograph is intended for elucidation of the novel trend in chemical physics regarding the polymer non crystalline phase It stresses the physical phenomena affecting the kinetics and mechanism of chemical reactions proceeding in the non crystalline polymer matrix NCPM NCPM is depicted in terms of a supramolecular carcass micellar model The model is thought to reflect heterophase packing of polymeric chains which co operate as a molecular chain sponge The NCPM model presented is proved for adequate description of principal structure physical phenomena to elaborate the scheme of structural kinetic modeling of chemical reactions in bulky polymers Structure physical phenomena elucidated in the monograph are peculiarities of polymer plasticization and polymer blending with liquids structural and thermodynamic aspects of sorption of low molecular species properties of ESR spin probes and optical molecular probes features of water absorbed by polymers mechanical and thermal effects generated by the molecular chain sponge supramolecular aspects of NCPM chemical physics This monograph includes the structural kinetic modeling of complex polymer chemical reactions It deals with the problem of mechanism and kinetics of free radical chain reactions using thermal and photochemical model reactions of dibenzoyl peroxide with glassy like polymers cellulose triacetate polycarbonate polystyrene polyamide PA 548 viscoelastic polymers atactic polypropylene polyamide PA 548 polyethylene polyisobutylene melted poly ethylene oxide and isotactic polypropylene In all cases the supramolecular heterophase mechanism of the processes which was unknown for homogeneous systems was proved Furthermore heterophase mechanisms of photochemical reaction between naphthalene and cellulose triacetate and photolysis of poly methyl methacrylate proceeding as a photochain reaction are indicated

The Statistical Nature of Strength and Lifetime in Polymer Films and Fibers Bronya Tsoi, 2004-03-01 This monograph is an updated and extended edition of Strength and Fracture of Polymer Films which was published in Russian in 1999 It presents the results of long term theoretical and experimental studies of brittle and quasi brittle fracture of solid polymers The principal results of a comprehensive and detailed investigation of the statistical **Thermal Stability of Engineering**

Heterochain Thermoresistant Polymers Kalugina, Gumargalieva, Gennady Zaikov, 2004-08-31 This book presents investigation results of thermal transformations in thermoresistant polymers polysulfones polyester imides aliphatic aromatic polyimides and polyamides liquid crystal aromatic co polyesters polyphenylquinoxalines at temperatures of materials and articles processing and operation An important result of investigations is the d **Low-Temperature Behaviour of**

Elastomers Maya F. Bukhina, Mai a Faddeevna Bukhina, Sergei K. Kurlyand, 2007-11 This book focuses on the effect the composition of rubbers and the conditions of their processing have on low temperature resistance It considers the nature and development of two physical processes glass transition and crystallization determining low temperature behavior of

elastomers The book addresses the effects of deformation pressure and temperature on these processes It discusses the contribution of different factors in frost resistance of elastomeric materials and articles and the possibility of increasing frost resistance by optimization of composition and design Analysis of Flame Retardancy In Polymer Science Henri Vahabi,Mohammad Reza Saeb,Giulio Malucelli,2022-03-10 Analysis of Flame Retardancy in Polymer Science is a scientific practical book that is conceptualized designed and written for students early career researchers and junior engineers to explain the basic principles of fire analysis characterization methods methodologies from flammability ignition and fire spread to forced convection and related analyses and to elucidate the mechanisms underlying flame retardancy in both gas and condensed phases followed by correlation between laboratory and real scale fire analyses as well as fire analysis from an industrial standpoint This book is also an indispensable resource for identifying and mounting the latest achievements in fire analysis characterization methods to frame the effects of fire evaluation strategies to be utilized for research and development The book also gives a broad description of fire analysis related to different standards and regulations for different applications in different geographic zones Includes the background fundamental and modern features of techniques of characterization of fire and flame behavior Provides an overview of the major techniques used in fire analysis of flame retardant polymers Characterizes different types of materials at small bench and real life scale Offers a comprehensive overview of fire behavior and testing and associated toxicity issues Integrates the scientific technical standard regulation and industrial aspects of fire analysis into a book for future developments in the field Stationary and Non-Stationary Kinetics of the Photoinitiated Polymerization Medvedevskikh,Kytsya,Bazylyak,Anatolij Turovsky,Gennady Zaikov,2004-08-31 The main focus in this monograph is on models of the kinetics of photo initiated polymerization of mono and bi functional monomers up to the high conversion stage their derivation analysis and comparison with the experimental data This monograph can be useful for scientists engineers post graduate training students and students who are interested in problems both of the polymerization kinetics and general chemical kinetics **New Developments and Future Trends in Fire Safety on a Global Level** Frca,1997-03-04 This is a collection of papers from the Fire Retardant Chemicals Association International Conference in San Francisco USA March 16 19 1997 Includes additional papers from the Florida Fall 1996 Conference

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