

The Effects of Sterilization Methods

on Plastics and Elastomers

Second Edition

Liesl K. Massey

The Effect Of Sterilization Methods On Plastics And Elastomers 2nd Edition

Johannes Karl Fink



The Effect Of Sterilization Methods On Plastics And Elastomers 2nd Edition:

The Effect of Sterilization on Plastics and Elastomers Laurence W. McKeen, 2018-02-22 The Effect of Sterilization Methods on Plastics and Elastomers Fourth Edition brings together a wide range of essential data on the sterilization of plastics and elastomers thus enabling engineers to make optimal material choices and design decisions The data tables in this book enable engineers and scientists to select the right materials and sterilization method for a given product or application The book is a unique and essential reference for anybody working with plastic materials that are likely to be exposed to sterilization methods be it in medical device or packaging development food packaging or other applications Presents essential data and practical guidance for engineers and scientists working with plastics in applications that require sterile packaging and equipment Updated edition removes obsolete data updates manufacturers verifies data accuracy and adds new plastics materials for comparison Provides essential information and guidance for FDA submissions required for new medical devices

The Effect of Sterilization Methods on Plastics and Elastomers Liesl K. Massey, 2004-12-31 This extensively updated second edition was created for medical device medical packaging and food packaging design engineers material product technical support and research development personnel This comprehensive databook contains important characteristics and properties data on the effects of sterilization methods on plastics and elastomers It provides a ready reference for comparing materials in the same family as well as materials in different families Data is presented on 43 major plastic and elastomer packaging materials including biodegradable or organic polymers New to this edition are resin chapters containing textual summary information including category general description applications resistances to particular sterilization methods and regulatory status considerations for use in medical devices and medical food packaging The resin chapter material supplier trade name product data is presented in graphical and tabular format with results normalized to SI units retaining the familiar format of the best selling first edition and allowing easy comparison between materials and test conditions

Effect of Temperature and other Factors on Plastics and Elastomers Laurence W. McKeen, 2008-12-05 This book is an update to the first edition compiled and published in 1990 by William Woishnis A lot has changed in the field since 1990 and a lot has not changed There are new plastic materials There has been a huge turnover in ownership of plastics producing companies There has been a lot of consolidation which of course means discontinued products Thus this update is much more extensive than the usual next edition It has been reorganized from a chemistry point of view Plastics of similar polymer types are grouped into nine chapters Each of these chapters includes an introduction with a brief explanation of the chemistry of the polymers used in the plastics An extensive first chapter has been added as an introduction that summarizes the chemistry of making polymers the formulation of plastics testing and test methods and plastic selection Most plastic products and parts are expected to be used in environments other than room temperature and standard humidity conditions Chapters 2 10 are a databank that serves as an evaluation of plastics as they are exposed to

varying operating conditions at different temperatures humidity and other factors Over 900 graphs for more than 45 generic families of plastics are contained in these chapters Chapter 11 contains extensive mechanical and electrical data in tabular form The tables contain data on several thousand plastics Similarly Chapter 12 contains thermal data on several thousand plastics Data from the first edition have only been removed if those products were discontinued and many products were Product names and manufacturers have been updated Detailed introductions of plastics properties testing procedures and principles of plastics design The only databook available on the effects of temperature and humidity conditions on plastics and elastomers More than 1 000 graphs and tables allow for easy comparison between products Covers more than 70 types of plastics and summarizes the chemistry of each type **Handbook of Thermoplastic Elastomers** Jiri George Drobný, 2007-08-11 There are few if any adequate guides to the properties processing and applications of thermoplastic elastomers in spite the skyrocketing rise in the use of these materials Until now This new book sets the standard for a reference on these materials by compiling in one comprehensive volume an applicable knowledge of the chemistry processing and all properties and uses of thermoplastic elastomers Copiously illustrated and full of applicable processing and engineering data this is the very definition of a definitive user's guide **Handbook of Plastics Joining** Michael J. Troughton, 2008-10-17 The new edition of this bestselling reference provides fully updated and detailed descriptions of plastics joining processes plus an extensive compilation of data on joining specific materials The volume is divided into two main parts processes and materials The processing section has 18 chapters each explaining a different joining technique The materials section has joining information for 25 generic polymer families Both sections contain data organized according to the joining methods used for that material A significant and extensive update from experts at The Welding Institute A systematic approach to discussing each joining method including process advantages and disadvantages applications materials equipment joint design and welding parameters Includes international suppliers directory and glossary of key joining terms Includes new techniques such as flash free welding and friction stir welding Covers thermoplastics thermosets elastomers and rubbers **The Effect of UV Light and Weather** Liesl K. Massey, 2006-09-07 This extensively updated comprehensive databook was created for design and application engineers scientists and material producer technical support and research and development personnel Important weathering characteristics and material properties of plastics and elastomers are presented in discussion tabular and graphical sections It provides a ready reference for comparing materials in the same family as well as materials in different families Data are presented on 80 major plastic and elastomer materials including biodegradable or organic polymers New to this edition the resin chapters each contain textual summary information including category general description and weathering properties detailing information of the material's susceptibility or immunity to weathering including discussion of test results Extensive references are provided The resin chapter material supplier trade name product data are presented in graphical and tabular format with results normalized to

SI units retaining the familiar format of the 1st edition and allowing easy comparison between materials and test conditions

The Effects of Sterilization Methods on Plastics and Elastomers Liesl K. Massey, 2005 The second edition of this bestselling title examines how sterilization methods affect the properties of plastics and elastomers It provides the comprehensive detail necessary to make first evaluations materials comparisons and final decisions in applications pursuits

Fluoroelastomers Handbook Albert L. Moore, 2006-01-14 This is a must have reference for materials scientists and engineers in the automotive aerospace chemical chemical process and power generation industries Fluoroelastomers are growing as products of choice for critical components such as O rings hoses and seals in hostile fluid and temperature conditions

Fluoropolymer Applications in the Chemical Processing Industries Sina Ebnesajjad, Pradip R. Khaladkar, 2004-12-02 This is a self contained collection of data and information on applications of fluoropolymers components for corrosion control in chemical processing industries Due to their superior properties fluoropolymers have been rapidly replacing metal alloys for preserving the purity of processing streams in the chemical processing plastics food pharmaceutical semiconductor and pulp and paper industries

Fluorinated Coatings and Finishes Handbook Laurence W. McKeen, 2015-10-11 Fluorinated Coatings and Finishes Handbook The Definitive User's Guide Second Edition addresses important frequently posed questions by end user design engineers coaters and coatings suppliers on fluorinated coatings and finishes thus enabling them to achieve superior product qualities and shorter product and process development times The book provides broad coverage of these fluorinated polymer coatings including the best known PTFE polytetrafluoroethylene first trademarked as Teflon and ePTFE GoreTex Their inherent qualities of low surface tension non stick low friction high melting point and chemical inertness make fluoropolymer coatings widely desirable across thousands of industrial and consumer applications but these properties also make it difficult to convert fluoropolymers to coatings that have sufficient adhesion to the substrate to be protected In this book readers learn how fluoropolymer coatings are used and made about their pigments and fillers binders dispersion processes additives and solvents The book includes substrate preparation coating properties baking and curing processes performance tests applications and health and safety Provides a practical handbook that covers the theory and practice of fluorinated coatings including the structure and properties of binders and how to get a non stick coating to stick to the substrate Covers liquid and power fluorocoatings their applications methods curing and baking processes and their commercial end uses Presents detailed discussions of testing methods related to fluorocoatings common coating defects how they form how to eliminate them and the health and safety aspects of using and applying fluorocoatings Includes substrate preparation coating properties baking and curing processes performance tests applications and health and safety

Compounding Precipitated Silica in Elastomers Norman Hewitt, 2007-04-24 This valuable guide to compounding elastomers with precipitated silica covers principles properties mixing testing and formulations from a practical perspective This handbook and reference manual will serve those who work on part design

elastomer formulation manufacturing and applications of elastomers Ample discussion of compound specifications adds to the usefulness of this book to practitioners Comparisons of carbon black and silica compounds throughout the book allow readers to select the most suitable formulation for applications ranging from tires to electrical insulation to shoe soles The author has over forty years of experience in the rubber industry highlighted by his 39 years at the PPG Rubber Research laboratories A highlight of the book is the inclusion of studies conducted by the author which greatly adds to the richness of the contents

Reactive Polymers Fundamentals and Applications Johannes Karl Fink, 2013-04-11 The use of reactive polymers enables manufacturers to make chemical changes at a late stage in the production process these in turn cause changes in performance and properties Material selection and control of the reaction are essential to achieve optimal performance The second edition of Reactive Polymers Fundamentals and Applications introduces engineers and scientists to the range of reactive polymers available explains the reactions that take place and details applications and performance benefits Basic principles and industrial processes are described for each class of reactive resin thermoset as well as additives the curing process and applications and uses The initial chapters are devoted to individual resin types e g epoxides cyanacrylates etc followed by more general chapters on topics such as reactive extrusion and dental applications Material new to this edition includes the most recent developments applications and commercial products for each chemical class of thermosets as well as sections on fabrication methods reactive biopolymers recycling of reactive polymers and case studies Injection molding of reactive polymers radiation curing thermosetting elastomers and reactive extrusion equipment are all covered as well Most comprehensive source of information about reactive polymers Covers basics as well as most recent developments including reactive biopolymers recycling of reactive polymers nanocomposites and fluorosilicones Indispensable guide for engineers and advanced students alike providing extensive literature and patent review

Fluorinated Ionomers Walther Grot, 2007-12-05 The author of this unique handbook on fluorinated ionomers is also the inventor of the first commercial product known as Nafion DuPont The book covers partially fluorinated and perfluorinated polymers containing sufficient ionic groups to dominate the transport properties of the polymer The emphasis of this book is on the practical aspects of working with fluorinated ionomers It is intended to help the scientist and engineer in the preparation fabrication use and study of these products as well as in the development of new applications and compositions Extensive coverage has been given to perfluorinated ionomers because of the practical importance of this group of polymers Commercial products such as Nafion Aciplex Asahi Chemical and Flemion Asahi Glass are fluorinated ionomers have been discussed in detail Whether you need information about use of fluorinated ionomers in fuel cells batteries chlor alkali cells sensors fabrication techniques or commercial products you will find it in this valuable handbook Applicable information and data on processing fluorinated ionomers Author is the inventor of the first commercial fluorinated ionomer Nafion DuPont Information provides stepping stone for development of new applications and compositions Whether you need information

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Essential Rubber Formulary: Formulas for Practitioners

Chellappa Chandrasekaran, 2007-03-22 The author a seasoned rubber technologist of four decades provides more than 180 essential rubber formularies some of which have never been published that are used by practitioners the world over on a frequent basis A special feature of the formulations is that they are designed for factory scale applications The opening chapter of this indispensable book gives practical information on compounding techniques coloring ingredients as well as a whole section on typical rubber testing methods The book concludes with appendices useful for the technologist that include seven conversion tables and three tables on scorching of rubber specific gravity and volume cost equivalent chemical names for trade names Designing a rubber formula on the factory floor demands knowledge of the whole undertaking such as the physical nature of ingredients the interaction of additives and the base rubber during compounding and processing as well as making sure that the finished product conforms to specification and requirements This book provides all the necessary knowledge for practitioners and students alike

Mechanics of Time-Dependent Materials and Processes in

Conventional and Multifunctional Materials, Volume 3 Tom Proulx, 2025-08-07 Mechanics of Time Dependent Materials and Processes in Conventional and Multifunctional Materials represents one of eight volumes of technical papers presented at the Society for Experimental Mechanics Annual Conference on Experimental and Applied Mechanics held at Uncasville Connecticut June 13 16 2011 The full set of proceedings also includes volumes on Dynamic Behavior of Materials Mechanics of Biological Systems and Materials MEMS and Nanotechnology Optical Measurements Modeling and Metrology Experimental and Applied Mechanics Thermomechanics and Infra Red Imaging and Engineering Applications of Residual Stress

PEEK Biomaterials Handbook Steven M. Kurtz, 2019-03-15 PEEK biomaterials are currently used in hundreds of thousands of spinal fusion patients around the world every year Durability biocompatibility and excellent resistance to aggressive sterilization procedures make PEEK a polymer of choice replacing metal in orthopedic implants from spinal implants and knee replacements to finger joints and dental implants The new edition of this authoritative work sees the book expand from 17 chapters to 26 chapters to match the expansion in applications in PEEK from spinal cages to spinal rods and disc replacements hip and knee joint replacement dental trauma and sports medicine New PEEK formulations have been developed incorporating hydroxyapatite additives to combat infection and surface grafted polymers to improve lubrication The book also covers additive manufacturing which has made significant inroads with PEEK in the past 5 years as well by introducing the prospect of patient specific implants Like the 1st edition the updated Handbook brings together experts in many different facets related to PEEK clinical performance as well as in the areas of materials science tribology and biology to provide a complete reference for specialists in the field of plastics biomaterials medical device design and surgical applications Useful for materials scientists and biomedical engineers both in industry and academia the book is a one stop

shop for information on PEEK as a biomaterial including in depth coverage of materials properties while also providing cutting edge information on applications and combinations of the material Presents a complete reference work covering PEEK the leading polymer for spinal implants and a range of other biomedical applications Covers a range of new formulations and applications including in depth coverage of the additive manufacturing of PEEK Provides a vital source of supporting information for materials selection decisions and regulatory submissions Comprehensive Biomaterials II Kevin Healy, Dietmar W. Hutmacher, David W. Grainger, C. James Kirkpatrick, 2017-05-18 Comprehensive Biomaterials II Second Edition Seven Volume Set brings together the myriad facets of biomaterials into one expertly written series of edited volumes Articles address the current status of nearly all biomaterials in the field their strengths and weaknesses their future prospects appropriate analytical methods and testing device applications and performance emerging candidate materials as competitors and disruptive technologies research and development regulatory management commercial aspects and applications including medical applications Detailed coverage is given to both new and emerging areas and the latest research in more traditional areas of the field Particular attention is given to those areas in which major recent developments have taken place This new edition with 75% new or updated articles will provide biomedical scientists in industry government academia and research organizations with an accurate perspective on the field in a manner that is both accessible and thorough Reviews the current status of nearly all biomaterials in the field by analyzing their strengths and weaknesses performance and future prospects Covers all significant emerging technologies in areas such as 3D printing of tissues organs and scaffolds cell encapsulation multimodal delivery cancer vaccine biomaterial applications neural interface understanding materials used for in situ imaging and infection prevention and treatment Effectively describes the many modern aspects of biomaterials from basic science to clinical applications *Concise Encyclopedia of Plastics* Marlene G. Rosato, D.V. Rosato, 2012-12-06 After over a century of worldwide production of all kinds of plastic products cost estimators buyers vendors consultants of products the plastics industry is now the fourth largest and others industry in the United States This brief concise and practical The bulk of the book is the alphabetical listing of entries The book is a cutting edge compendium of the plastics industry Preceding those entries is A Plastics Overview Figuring out industry's information and terminology ranging from uses and Tables which presents eight summary guides on design materials and processes to testing quality control the subjects examined in the text and then the World of regulations legal matters and profitability New and use Plastics Reviews which presents 14 articles that provide full developments in plastic materials and processing with general introductory information comprehensive updates continually are on the horizon and the examples of these developments and important networking avenues within the world of developments that are discussed in the book provide guides plastics Following the alphabetical listing of entries at the end to past and future trends end of the encyclopedia seven appendices provide background This practical and comprehensive book reviews the ground and source guide information keyed to the text of the book The extensive and useful Appendix A List of

plastics industry virtually from A to Z through its more than 25 000 entries Its concise entries cover the basic is Abbreviations lists all abbreviations used in the text Introduction to Fluoropolymers Sina Ebnesajjad,2020-12-08 Introduction to Fluoropolymers Second Edition provides a comprehensive overview of the history principles properties processing and applications of fluoropolymers supporting their development and utilization in high performance applications components and products This second edition has been updated and expanded to include new in depth chapters on manufacturing and applications of PTFE and melt processible fluoropolymers The book begins by demonstrating the role of fluoropolymers in everyday life before introducing the history and basic principles of fluoropolymers This is followed by detailed coverage of the main fluoropolymer types Properties and applications are illustrated by real world examples as diverse as waterproof clothing vascular grafts and coatings for aircraft interiors The different applications of fluoropolymers show the benefits of a group of materials that are highly water repellant and flame retardant with unrivalled lubrication properties and a high level of biocompatibility Health and safety and environmental aspects are also covered throughout the book with a final chapter examining safety disposal and recycling in detail This book is an essential resource for anyone looking to understand or use fluoropolymer materials in their products This includes engineers product designers manufacturers scientists researchers and other professionals across industries such as automotive aerospace medical devices food and beverages high performance apparel oil and gas renewable energy solar photovoltaics electronics and semiconductors pharmaceuticals and chemical processing This is also a valuable introductory guide for academic researchers and advanced students in plastics engineering polymer science and materials science Introduces and demystifies fluoropolymers for a wide audience of engineers designers professionals and researchers across industries and disciplines Covers a broad range of materials including polytetrafluoroethylene PTFE polyvinyl fluoride PVF vinylidene fluoride polymers fluoroelastomers and more Focuses on properties processing methods and advanced industrial applications of fluoropolymers

Fluoropolymer Additives Sina Ebnesajjad,Richard Morgan,2019-04-15 Fluoropolymer Additives Second Edition provides practical information on this group of additives along with their applications and proper and safe handling Chapters cover how commercial additives have been updated providing a starting point where readers can begin the process of selection of additives for their own applications Fully updated sections on applications provide the readers with a step by step description of the techniques necessary to select and incorporate these additives in various products This book is the only practical guide available on the selection and use of fluoropolymer additives It will help readers optimize existing fluoropolymer applications and implement new initiatives In recent years the application of fluoropolymer additives has expanded significantly with even the meaning of fluoropolymer additives expanding from the relatively narrow definition of PTFE powder fillers to a wide variety of fluoropolymer elastomers used as processing aids for plastics processing techniques in extrusion injection molding and film blowing In addition fluoropolymer additives are being increasingly used in inks lubricants and coatings Includes

essential information and data that enables engineers and materials scientists to realize the full benefits of fluoropolymer additives as processing aids Written by authors Ebnesajjad and Morgan who take a highly practical approach to the subject that is based on real world experience and case studies Updated to include the latest commercial additives and applications information for practicing engineers

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