

MEDICAL PLASTICS

Degradation Resistance & Failure Analysis



Robert C. Portnoy



Society of Plastics Engineers



Plastics Design Library

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Myer Ezrin



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Medical Plastics Robert C Portnoy, 2008-12-10 The use of plastics is widespread Less widespread however is a clear understanding and examination of the many forms of degradation inherent within the very environments these materials must perform Medical Plastics Degradation Resistance Failure Analysis fills that void The introductory chapter gives an overview of the medical applications of plastics and the specific performance requirements they need to meet The following chapters discuss various degrading environments and their effects including environmental stress cracking effect of body liquids effect of harsh environments and various methods of sterilization The book also discusses the failure of medical devices due to contamination low temperature the effects of UV light migration of formulation components mechanical stresses and problems with design and fabrication Case histories of failures of some common products used in medicine are also provided Medical Plastics ,1998 **Handbook of Plastics Testing and Failure Analysis** Vishu Shah, 2007-02-26 Written in easy to read and use format this book updates and revises its bestselling predecessor to become the most complete comprehensive resource on plastics testing This book has an emphasis on significance of test methods and interpretation of results The book covers all aspects of plastics testing failure analysis and quality assurance including chapters on identification analysis failure analysis and case studies The book concludes with a substantial appendix with useful data charts and tables for ready reference Note CD ROM DVD and other supplementary materials are not included as part of eBook file *Plastics Failure* Myer Ezrin, 2013-08-01 Plastics failure to a certain extent is the result of a phenomenal increase in the number and variety of applications in relatively few years The focus of this book is on actual field and product failures The treatment is comprehensive emphasizing cause and prevention The concept of the interdependence of material design and processing is applied to all examples and cases The how to of prevention is brought out as a logical extension of the cause of failure Contents Nature Causes and Consequences of Plastics Failure Fundamental Materials Variables Affecting Processing and Product Performance or Failure Failures Related to Design and Material Selection Examples Processing Related Factors to Failure Failure Related to Service Conditions Failure Analysis and Test Procedures Quality Control Legal Aspects of Plastic Product Liability and Failure Examples of Failures in Various Applications *Kunststoffprüfung* Wolfgang Grellmann, Sabine Seidler, 2024-11-11 Die enormen Zuwachsraten in der Kunststoffherzeugung und anwendung erh hen die Forderung nach aussagekr ftigen Mess und Auswerteverfahren in der Kunststoffpr fung Durch die Fortschritte in der elektronischen Messtechnik haben sich sowohl die klassischen Pr fverfahren weiterentwickelt als auch v llig neuartige Methoden etabliert Die Aussagekraft dieser Kenngr en zur Quantifizierung der Zusammenh nge zwischen der Mikrostruktur und den makroskopischen Eigenschaften wird dargestellt Zus tzliche Informationen ber die ablaufenden Sch digungsprozesse und mechanismen k nnen durch die Anwendung gekoppelter zerst rungsfreier Kunststoffpr fverfahren bzw hybrider Methoden der Kunststoffdiagnostik gewonnen werden Anhand von Beispielen zur Optimierung von Kunststoffen und

Verbunden sowie zur Bewertung von Bauteileigenschaften wird ein werkstoffwissenschaftlich begründeter Einblick in die moderne Kunststoffprüfung vermittelt Diese vierte Auflage enthält ein völlig neues Kapitel über die Prüfung von Polymerfolien außerdem wurden viele andere Aktualisierungen und Korrekturen im gesamten Buch vorgenommen

Polymers in Medical Applications B.J. Lambert, F.-W. Tang, W. J. Rogers, 2001 The use of polymers in medical devices is growing at a steady rate These materials are generally relatively cheap and versatile qualities required in many bulk applications In more specialised medical devices polymeric components have been developed to meet challenging property and performance requirements This review describes the process of developing polymeric products for medical applications from design requirements through to specific examples of medical devices and packaging An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading

Fluorinated Coatings and Finishes Handbook Laurence W. McKeen, 2006-03-16 The Handbook of Fluorinated Coatings and Finishes The Definitive User's Guide is both a reference and a tutorial for understanding fluoropolymer coatings It discusses the basics of fluorocoating formulations including ingredients and production processes Also covered are the coating and curing processes and defects and trouble shooting solutions when things do not work as expected testing performance and sample commercial applications It addresses important questions frequently posed by end user design engineers coaters and coatings suppliers in their quest for superior product qualities and shorter product and process development time

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

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 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

Handbook of Thermoplastic Elastomers Jiri George Drobny,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

Biomaterials, Medical Devices, and Combination Products Shayne Cox Gad,Samantha Gad-McDonald,2015-12-01 Biomaterials Medical Devices and Combination Products is a single volume guide for those responsible for or concerned with developing and ensuring patient safety in the use and manufacture of medical devices The book provides a clear presentation of the global regulatory requirements and challenges in evaluating the biocompatibility and clinical

Plastics in Medical Devices Vinny R. Sastri,2013-11-27 Plastics in Medical Devices is a comprehensive overview of the main types of plastics used in medical device applications It focuses on the applications and properties that are most important in medical device design such as chemical resistance sterilization capability and biocompatibility The roles of additives stabilizers and fillers as well as the synthesis and production of polymers are covered and backed up with a wealth of data tables Since the first edition the rate of advancement of materials technology has been constantly increasing In the new edition Dr Sastri not only provides a thorough update of the first edition chapters with new information regarding new plastic materials applications and new

requirements but also adds two chapters one on market and regulatory aspects and supplier controls and one on process validation Both chapters meet an urgent need in the industry and make the book an all encompassing reference not found anywhere else Comprehensive coverage of uses of polymers for medical devices Unique coverage of medical device regulatory aspects supplier control and process validation Invaluable guide for engineers scientists and managers involved in the development and marketing of medical devices and materials for use in medical devices **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 **Polymer**

Product Failure P.R. Lewis,2000 Use of polymers in product design has continued to grow at a rate unrivalled by conventional materials such as metal ceramics or glass More polymeric materials are becoming available to the designer and this report highlights the need for caution in new design work for careful use of new materials and for awareness of the product environment An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading *Polymer Testing* Wolfgang Grellmann,Sabine Seidler,2022-06-07

Reliable and meaningful methods of polymer testing are necessary to support the plastics industry being essential for understanding material and part properties and evaluating materials for a part design with important implications for product safety as well as operating conditions and lifetime This book covers all the most important testing methods from long established basic techniques to recent developments including the latest polymer testing standards By means of examples for the optimization of materials as well as for the evaluation of part properties an insight into modern polymer testing and its interdisciplinary character is provided Included in this third edition is an all new chapter on the testing of polymer films additionally many small updates and corrections have been made throughout the book *Reactive Polymers Fundamentals and Applications* Johannes Karl Fink,2005-07-15 Loaded with practical knowledge Reactive Polymers Fundamentals and Applications A Concise Guide to Industrial Polymers comprehensively presents the state of art of methods and materials for the formulation of polymeric resins It is an indispensable tool for chemists engineers and manufacturers who use formulate and cure raw materials into final products The text focuses on the chemical modification of properties during the final stage of part fabrication from plastics Newer applications range from the small scale such as dental fillings to industrial processes for batch fabrication The book covers resin groups in major use in industry and under active research and development

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

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

Sterile Drug Products Michael J. Akers, 2016-04-19 Sterile Drug Products Formulation Packaging Manufacturing and Quality teaches the basic principles of the development and manufacture of high quality sterile dosage forms The author has 38 years of experience in the development and manufacture of sterile dosage forms including solutions suspensions ophthalmics and freeze dried products This

Biological Performance of Materials Jonathan Black, 2005-12-20 Bioengineers need a thorough grounding in biocompatibility the biological performance of materials Until now there were no publications suitable for a neophyte in the field prior publications were either not comprehensive or focused on rather narrow interests Drawing on the author's 35 years of experience as a teacher researcher and consultant in biomaterials science and engineering BSE Biological Performance of Materials Fundamentals of Biocompatibility Fourth Edition focuses primarily on principles of biological performance at a relatively fundamental level analyzing interactions between living organisms and nonliving materials used in medical devices the subject that sets BSE apart as a distinct field of investigation Following an introductory section the book is divided into three sections the material response to biological systems host response to biomaterials and test methods for determining biological response in vitro as well as in animal models and clinical settings Supplemental Interparts summarize the physical properties of commonly used metallic polymeric and ceramic biomaterials They also provide a guide to understanding the clinical performance of implanted biomaterials

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