

Film Properties

of Plastics and Elastomers

**A Guide to Non-Wovens in
Packaging Applications**

Second Edition

Liesl K. Massey



Film Properties Of Plastics And Elastomers Second Edition Plastics Design Library

Liesl K. Massey



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Film Properties of Plastics and Elastomers Laurence W. McKeen, 2012-04-25 Preface 1 Introduction to Plastics and Polymers 2 Chapter 2 Introduction to the Mechanical Thermal and Permeation Properties of Plastics and Elastomers 3 Production of films 4 Markets and Applications for films 5 Styrenic Plastics 6 Polyesters 8 Polyamides Nylons 9 Polyolefins 10 Polyvinyls Acrylics 11 Fluoropolymers 12 High Temperature High Performance Polymers 13 Elastomers and rubbers 14 Renewable Resource or biodegradable polymers Appendices Permeation Unit Conversion Factors Vapor Transmission rate Conversion factors *Permeability Properties of Plastics and Elastomers, 2nd Ed.* Liesl K. Massey, 2003-01-14 This extensively revised and updated second edition of the only data handbook available on the properties of commercial polymeric films details the permeability characteristics of over 125 major plastic and elastomer packaging materials New to this edition are 92 resin chapters containing textual summary information including category general description processing methods applications and general permeability considerations for water vapor oxygen and other gases including aroma and flavor The product data is presented in graphical and tabular format retaining the familiar format of the first edition and allowing easy comparison between materials and test conditions

Film Properties of Plastics and Elastomers Laurence W. McKeen, Liesl K. Massey, 2005-01-14 This extensively revised and updated second edition of the only data handbook available on the engineering properties of commercial polymeric films details many physical mechanical optical electrical and permeation properties within the context of specific test parameters providing a ready reference for comparing materials in the same family as well as materials in different families Data are presented on the characteristics of 47 major plastic and elastomer packaging materials New to this edition the resin chapters each contain textual summary information including category general description processing methods applications and other facts as appropriate such as reliability weatherability and regulatory approval considerations for use in food and medical packaging 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 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

Food Packaging Gordon L. Robertson, 2005-09-22 A comprehensive and accessible textbook Food Packaging Principles and Practice Second Edition presents an integrated approach to understanding the principles underlying food packaging and their applications Integrating concepts from chemistry microbiology and engineering it continues in the fine tradition of its bestselling predecessor and has been completely updated to include new updated and expanded content The author divides the book's subject matter into five parts for ease of use The first part addresses the manufacture properties and forms of packaging materials placing emphasis on those properties that influence the quality and shelf life of food The second part then details the various types of deteriorative reactions that foods undergo examines the extrinsic factors controlling their reaction rates and discusses specific factors influencing shelf life and the methodology used to estimate that shelf life Chapters on the aseptic packaging of foods active and intelligent packaging modified atmosphere packaging and microwavable food packaging are explored in the third part while the fourth part describes packaging requirements of the major food groups The final section examines the safety and legislative aspects of food packaging The book also includes over 300 industry abbreviations acronyms and symbols and an expansive index What's New in the Second Edition Includes five new chapters and diagrams that explain recent developments in packaging materials and processes Provides the latest information on new and active packaging technologies Presents new updated and expanded references Adhering to the highly organized format that made the first edition so straightforward and informative this latest edition of Food Packaging Principles and Practice presents students with the most essential and cutting edge information available The author maintains a website with more information

Film Properties of Plastics and Elastomers Laurence W. McKeen, Liesl K. Massey, 2013-10-22 This extensively revised and updated second edition of the only data handbook available on the engineering properties of commercial polymeric films details many physical mechanical optical electrical and permeation properties within the context of specific test parameters providing a ready reference for comparing materials in the same family as well as materials in different families Data are presented on the characteristics of 47 major plastic and elastomer packaging materials New to this edition the resin chapters each contain textual summary information including category general description processing methods applications and other facts as appropriate such as reliability weatherability and regulatory approval considerations for use in food and medical packaging 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

Handbook of Thermoplastic Elastomers Jiri George Drobný, 2014-05-30 Handbook of Thermoplastic Elastomers Second Edition presents a comprehensive working knowledge of thermoplastic elastomers TPEs providing an essential introduction for those learning the basics but also detailed engineering data and best practice guidance for those already

involved in polymerization processing and part manufacture TPEs use short cost effective production cycles with reduced energy consumption compared to other polymers and are used in a range of industries including automotive medical construction and many more This handbook provides all the practical information engineers need to successfully utilize this material group in their products as well as the required knowledge to thoroughly ground themselves in the fundamental chemistry of TPEs The data tables included in this book assist engineers and scientists in both selecting and processing the materials for a given product or application In the second edition of this handbook all chapters have been reviewed and updated New polymers and applications have been added particularly in the growing automotive and medical fields and changes in chemistry and processing technology are covered Provides essential knowledge of the chemistry processing properties and applications for both new and established technical professionals in any industry utilizing TPEs Datasheets provide at a glance processing and technical information for a wide range of commercial TPEs and compounds saving readers the need to contact suppliers Includes data on additional materials and applications particularly in automotive and medical industries

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

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 *Handbook of Biopolymers and Biodegradable Plastics* Sina Ebnesajjad, 2012-09-19 This new Handbook provides engineers and scientists with the information and practical guidance needed to successfully design and manufacture products using biopolymers and biodegradable plastics Biopolymers and biodegradable plastics are a hot issue across the plastics industry and for many of the industry sectors that use plastic from packaging to medical devices and from the construction industry to the automotive sector This book brings together in one place a number of key biopolymer and biodegradable plastics topics in chapters previously published as well as updated and new chapters for a broad audience of engineers of and scientists especially those designing with biopolymers and biodegradable plastics or evaluating the options for switching from traditional plastics to biopolymers Topics covered include preparation fabrication applications and recycling including biodegradability and compostability Applications in key areas such as films coatings controlled release and tissue engineering are discussed

Better Packaging Better World Assunta Camilo, Simone Ruiz, Edenilson Santos, Margaret Hayasaki, Célia Freitas, Eric Fresnel, Guilherme Presa Arcuri, Roberto Castilho, Silvio Rotta, 2024-04-08 The bilingual collection Embalagem Melhor Mundo Melhor Better Packaging Better World which already has twelve books was born from the idea of covering all areas of knowledge involved in the development of packaging from its conception to its arrival at the point of sale It is also the result of the Instituto de Embalagens belief Better Packaging Better World which is its raison d'être in the area of packaging teaching and research More than 17 000 professionals have already been trained with the books in the collection The third edition revised and updated brings together the entire packaging system from concepts to final disposal including market design trends innovations materials processes equipment and the delicate issue of sustainability Divided into six units this book brings new chapters such as packaging for organic products packaging for e commerce polyester films structures for flexible packaging types of flexible packaging lids seals and accessories steel closures carton packaging stretch and shrink films coatings and barrier varnishes paints varnishes and adhesives for flexible packaging inks varnishes and adhesives for paper and paperboard packaging color pattern control testing for packaging variable weight products and labeling machines The quality and availability of the authors who are experienced professionals fully active in the industry constitute a differential of the book which approaches in a simple and accessible way the universe of the packaging industry for packaging converters and consumer products industries A book such as this was only possible thanks to the expertise of the

authors and the fact that they understood the high purpose of the mission to educate and share knowledge for the development of better packaging for a better world The new book will also have an e book version Portuguese and English All the books in the collection are available on the same website platform which is the collection s channel www.betterpackagingbetterworld.com With the commitment of disseminating knowledge and growth of the packaging sector the Instituto de Embalagens is spreading its belief Better Packaging Better World Assunta Napolitano Camilo Instituto de Embalagens Director

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 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

Handbook of Thermoset Plastics Hanna Dodiuk, 2013-11-28 Thermosetting plastics are a distinct category of plastics whose high performance durability and reliability at high temperatures makes them suitable for specialty applications ranging from automotive and aerospace through to electronic packaging and consumer products your melamine kitchen worktop is a thermoset resin Recent developments in thermoset plastics technology and processes has broadened their use exponentially over recent years and these developments continue in November 2011 French scientists created a new lightweight thermoset that is as strong and stable as previous materials yet can be easily reworked and reshaped when heated which makes it unique amongst thermosets and allows for repair and recycling The Handbook of Thermoset Plastics now in its Third edition provides a comprehensive survey of the chemical processes manufacturing techniques and design properties of each polymer

along with their applications Written by a team of highly experienced practitioners the practical implications of using thermoset plastics are presented both their strengths and weaknesses The data and descriptions presented here enable engineers scientists and technicians to form judgments and take action on the basis of informed analysis The aim of the book is to help the reader to make the right decision and take the correct action avoiding the pitfalls the authors experience has uncovered The new edition has been updated throughout to reflect current practice in manufacturing and processing featuring Case Studies to demonstrate how particular properties make different polymers suitable for different applications as well as covering end use and safety considerations A new chapter on using nanoparticles to enhance thermal and mechanical properties A new chapter describing new materials based on renewable resources such as soy based thermoset plastics A new chapter covering recent developments and potential future technologies such as new catalysts for Controlled Radical Polymerization Goodman and Dodiuk Kenig provide a comprehensive reference guide to the chemistry manufacturing and applications of thermosets Updated to include recent developments in manufacturing from biopolymers to nanocomposites Case Studies illustrate applications of key thermoset plastics *Rubber Products* Bireswar

Banerjee,2024-04-22 *Rubber Products* describes cost effective and environmentally friendly technologies in the field of rubber The book covers rubber compounding innovations in rubber based products devulcanisation of cured rubber and provides lean management techniques It explains the commercial advantages of graphene rubber nanocomposites details the morphology of most common reinforcing carbon blacks and explores innovative applications of rubber in automotive and Defence sectors The title is also discussing potential alternative technologies which could disrupt the rubber industry in the future All chapters are written by prominent rubber scientists from both the industry and academia **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 International Polymer Science and

Technology ,2004 *Polymers* Bryan Ellis,Ray Smith,2008-10-29 A reliable source for scientific and commercial information on over 1 000 polymers this revised and updated edition features 25 percent new material including 50 entirely new entries

that reflect advances in such areas as conducting polymers hydrogels nano polymers and biomaterials The second edition also comes with unlimited access to a complete fully searchable web version of the reference Powerful retrieval software allows users to customize their searches and refine results Each entry includes trade names properties manufacturing processes commercial applications supplier details references and links to constituent monomers Permeability Properties of Plastics and Elastomers Liesl K. Massey, 2003-01-01 This extensively revised and updated second edition of the only data handbook available on the properties of commercial polymeric films details the permeability characteristics of over 125 major plastic and elastomer packaging materials New to this edition are 92 resin chapters containing textual summary information including category general description processing methods applications and general permeability considerations for water vapor oxygen and other gases including aroma and flavor The product data is presented in graphical and tabular format retaining the familiar format of the first edition and allowing easy comparison between materials and test conditions **The Effect of UV Light and Weather on Plastics and Elastomers** Laurence W. McKeen, 2013-06-21 This reference guide brings together a wide range of essential data on the effects of weather and UV light exposure on plastics and elastomers enabling engineers to make optimal material choices and design decisions In both normal and extreme environments outdoor use has a variety of effects on different plastics and elastomers including discoloring and brittleness The data is supported by explanations of real world engineering applications The data tables in this book are supported by examples of real world applications enabling engineers and scientists to select the right materials for a given situation across a wide range of sectors including construction packaging signage consumer e g toys outdoor furniture automotive and aerospace defense etc The third edition includes new text chapters that provide the fundamental knowledge required to make best use of the data Author Larry McKeen has also added detailed descriptions of the effect of weathering on the most common polymer classes such as polyolefins polyamides polyesters elastomers fluoropolymers biodegradable plastics etc making this book an invaluable design guide as well as an industry standard data source Essential data and practical guidance for engineers and scientists working with plastics in outdoor applications and products New introductory chapters on weathering processes and the effect of light and heat on plastics 25% new data

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