

Plastics Additives

Volume 2



An Industry Guide, Third Edition

Ernest W. Flick

William Andrew
Publishers



Plastics Additives An Industrial Guide

Laurence W. McKeen



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Plastics Additives, Volume 1 Ernest W. Flick, 2013-10-22 This book and its companion volumes contain plastics additives formulations based on information received from numerous industrial companies and other organizations Each formulation is identified by a description of its end use Plastics Additives Ernest W. Flick, 1993 **Plastics Additives, Volume 3** Ernest W. Flick, 2001-12-31 Contains plastics additives formulations based on information received from industrial companies and other organizations Plastics Additives, Volume 1 Ernest W. Flick, 2002-01-14 This book and its companion volumes contain plastics additives formulations based on information received from numerous industrial companies and other organizations Each formulation is identified by a description of its end use **An Introduction to Plastics** Hans-Georg Elias, 2003-11-07 Die Leser mussten lange warten Jetzt endlich zehn Jahre nach Erscheinen der ersten Auflage gibt es die grundlegend bearbeitete Neuauflage dieses Klassikers inhaltlich erweitert und neu strukturiert Doch an seinem Konzept hat sich nichts geändert Es ist eine präzise aber nicht mathematische Einführung in das Gebiet der Kunststoffe Die ökonomische Bedeutung von Kunststoffen bzw Polymeren ist weiterhin enorm Höchstes Zeit also für die Neuauflage dieser erfolgreichen Einführung Sie gibt einen aktuellen und ebenso klaren wie detaillierten Überblick über Rohstoffe Herstellungsverfahren und die Materialeigenschaften der Kunststoffe Letztere werden zu den molekularen und supermolekularen Eigenschaften der Polymere in Beziehung gesetzt Die Kapitel zu Polymerverbindungen Morphologie Flie ßverhalten und Verarbeitung wurden gegenüber der ersten Auflage erheblich erweitert Neu hinzugekommen sind Abschnitte zur elektrischen Leitfähigkeit sowie zu nicht linearen optischen Eigenschaften Auch wer über die neuesten Entsorgungsverfahren Bescheid wissen möchte wird von Elias bestens informiert Ein wesentlicher Grund für den Erfolg der Voraufgabe sollte auch ihre Fortsetzung zum Bestseller werden lassen der klare mitunter brillante Stil des Autors So komplex die Materie auch sein mag Elias findet die angemessene sprachliche Form Dass Verständlichkeit in diesem Buch ganz groß geschrieben wird belegen auch sein Aufbau sowie der sehr praktische übersichtliche Index Ob Chemiker Physiker Materialwissenschaftler Ingenieure oder Techniker Wer sich einen Überblick über Kunststoffe und Polymere verschaffen möchte dürfte kaum ein geeigneteres Buch finden *Handbook of Polymer Applications in Medicine and Medical Devices* Kayvon Modjarrad, Sina Ebnesajjad, 2013-12-05 While the prevalence of plastics and elastomers in medical devices is now quite well known there is less information available covering the use of medical devices and the applications of polymers beyond medical devices such as in hydrogels biopolymers and silicones beyond enhancement applications and few books in which these are combined into a single reference This book is a comprehensive reference source bringing together a number of key medical polymer topics in one place for a broad audience of engineers and scientists especially those currently developing new medical devices or seeking more information about current and future applications In addition to a broad range of applications the book also covers clinical outcomes and complications arising from the use of the polymers in the body giving engineers a vital insight into the real world implications

of the devices they're creating Regulatory issues are also covered in detail The book also presents the latest developments on the use of polymers in medicine and development of nano scale devices Gathers discussions of a large number of applications of polymers in medicine in one place Provides an insight into both the legal and clinical implications of device design Relevant to industry academic and medical professionals Presents the latest developments in the field including medical devices on a nano scale Industrial Chemicals G. Agam,2012-12-02 The special world of industrial chemistry is illuminated in this text Issues such as naming and classification of chemicals safety formulations and specifications information and patents are treated Process related topics are discussed such as scaling up equipment selection construction materials environmental impact and waste minimization Aspects which fall in between the traditional disciplines of chemistry and chemical engineering are covered which are so critical for the development of a successful industrial process and the awareness of which avoids pitfalls in industrial research and development Case studies are given and special appendices provide useful information for the industrial chemist or student The book is aimed at industrial chemists and engineers and at students in those faculties intending to pursue this field in industry Marketing and purchasing staff will also find this text valuable **Film Properties of Plastics and Elastomers** Laurence W. McKeen,2012-04-25 Now in its 3e Film Properties of Plastics and Elastomers has been extensively revised This is the only data handbook available on the engineering properties of commercial polymeric films It 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 is 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 Essential data and practical guidance for engineers and scientists working with polymer films 3e expanded by nearly 50% to include new data sections and additional explanatory chapters to help readers utilize the data and work successfully with plastic films Written for engineers working across the key market sectors for polymer film applications semiconductor chemicals food beverage and pharmaceutical packaging energy medical devices etc Permeability Properties of Plastics and Elastomers Laurence W. McKeen,2011-09-08 Permeability properties are essential data for the selection of materials and design of products across a broad range of market sectors from food packaging to Automotive applications to Medical Devices This unique handbook brings together a wealth of permeability data in a form that enables quick like for like comparisons between materials The data is supported by a full explanation of its interpretation and an introduction to the engineering aspects of permeability in polymers The third edition includes expanded explanatory text which makes the book accessible to novices as well as experienced engineers written by industry insider and author Larry McKeen DuPont and 20% new data and major new

explanatory text sections to aid in the interpretation and application of the data A unique collection of permeability data designed to enable quick like for like comparisons between different materials Third edition includes 20% new data and expanded explanatory text which makes the book accessible to novices as well as experienced engineers Essential reference for materials engineers design engineers and applications engineers across sectors including packaging automotive and medical devices

Additives in Polymers Jan C. J. Bart, 2005-04-08 This industrially relevant resource covers all established and emerging analytical methods for the deformation of polymeric materials with emphasis on the non polymeric components Each technique is evaluated on its technical and industrial merits Emphasis is on understanding principles and characteristics and industrial applicability Extensively illustrated throughout with over 200 figures 400 tables and 3 000 references

Principles of Polymer Systems Ferdinand Rodriguez, Claude Cohen, Christopher K. Ober, Lynden Archer, 2014-12-09 A classic text in the field of chemical engineering this revised sixth edition offers a comprehensive exploration of polymers at a level geared toward upper level undergraduates and beginning graduate students It contains more theoretical background for some of the fundamental concepts pertaining to polymer structure and behavior while also providing an up to date discussion of the latest developments in polymerization systems New problems have been added to several of the chapters and a solutions manual is available upon qualifying course adoption

Handbook of Polymer Applications in Medicine and Medical Devices Laurence W. McKeen, 2013-12-05 Medical devices range from simple devices to test equipment to implants Plastics are used more and more in these devices for weight cost and performance purposes Examples of medical devices include surgical instruments catheters coronary stents pacemakers magnetic resonance imaging MRI machines X ray machines prosthetic limbs artificial hips knees surgical gloves and bandages

Plastics Additives J.C.J. Bart, 2006-03-15 Contains an outline of the principles and characteristics of relevant instrumental techniques provides an overview of various aspects of direct additive analysis by focusing on an array of applications in R and D production quality control and technical service

Molecular Characterization and Analysis of Polymers John M. Chalmers, Robert J. Meier, 2008-12-09 Written by expert contributors from the academic and industrial sectors this book presents traditional and modern approaches to polymer characterization and analysis The emphasis is on pragmatics problem solving and property determination real world applications provide a context for key concepts The characterizations focus on organic polymer and polymer product microstructure and composition Approaches molecular characterization and analysis of polymers from the viewpoint of problem solving and polymer property characterization rather than from a technique championing approach Focuses on providing a means to ascertaining the optimum approach or technique s to solve a problem measure a property and thereby develop an analytical competence in the molecular characterization and analysis of real world polymer products Provides background on polymer chemistry and microstructure discussions of polymer chain morphology degradation and product failure and additive analysis and considers the supporting roles of

modeling and high throughput analysis Plastics Technology Handbook - Volume 2 Don Rosato,2011-10-13 This comprehensive handbook provides a simplified practical and innovative approach to understanding the design and manufacture of plastic products It will expand the reader s understanding of plastics technology by defining and focusing on past current and future technical trends The content is presented so that both technical and nontechnical readers can understand the interrelationships of materials to processes Different plastic products are examined and their related critical factors are shown from meeting performance requirements in different environments to reducing costs and targeting for zero defects Examples used include small to large and simple to complex shapes Information is included on static properties tensile flexural dynamic properties creep fatigue impact and physical and chemical properties Extensive reference sources and useful data and physical and chemical constants are also provided Volume 2 offers detailed coverage of most major plastics processing techniques including injection molding extrusion blow molding and thermoforming **Plastics, Rubber and Health** Guneri Akovali,2007 In recent years there have been certain scare stories about the possible negative effects on human health from some of these materials However today it is realised that it is often not the polymers themselves but their monomers or the additives used that are responsible for these negative effects And the reality is that a lot of polymers are used in medical applications without adverse effects on patients Hence the dividing line between whether something is toxic and harmful to health or not and if it is under what conditions is a very critical issue and therefore there needs to be a better understanding of these systems This book presents the available information on the eternal triangle of plastics and rubber and health to enable a better understanding of the facts *The Effect of Temperature and other Factors on Plastics and Elastomers* Laurence W. McKeen,2023-04-04 The Effect of Temperature and Other Factors on the Properties of Plastics and Elastomers Fourth Edition provides data on the wide spectrum of plastics and TPEs with special reference to thermal stability The mechanical physical and electrical properties of plastics and elastomers are described as a function of temperature and humidity to help with the design of lighter more cost effective plastic parts to replace metal ones In this new edition expertly edited data makes it easy for readers to learn about the properties of plastic materials without having to search the general literature or depend on suppliers Additional types of plastics are examined and the latest data on material characteristics are provided Complex details such as how the thermal prehistory can effect final mechanical properties and how temperature scans reveal dynamic mechanical behavior are also examined to build a deeper understanding of the materials Fully updated edition features full coverage of the new data new plastics and applications that have emerged in recent years Features reorganization of plastics data by manufacturer facilitating quick reference **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 Long Term Thermal Exposure on Plastics and Elastomers* Laurence W. McKeen,2021-04-25 The Effect of Long Term Thermal Exposure on Plastics and Elastomers Second Edition brings together a wide range of essential data on the effect of long term thermal exposure on plastics and elastomers enabling engineers to make optimal material choices and design decisions This second edition has been thoroughly revised to include the latest data and materials This highly valuable handbook will support engineers product designers R D professionals and scientists who are working on plastics products or parts for high temperature environments across a range of industries This readily available data will make it easy for practitioners to learn about plastic materials and their long term thermal exposure without having to search the general literature or depend on suppliers This book will also be of interest to researchers and advanced students in plastics engineering polymer processing coatings and materials science and engineering Provides essential data and practical guidance for engineers and scientists working with plastics in high temperature environments Includes introductory chapters on the effect of heat aging and testing methods providing the underpinning knowledge required to utilize the data Covers a wide range of commercial polymer classes that are updated to include the latest developments in plastics materials

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