

Plastic Additives Handbook

Plastics Additives Handbook Additives for Plastics Handbook Plastics Additives Handbook Plastics Additives Handbook Additives for Plastics Handbook Plastics Additives and Modifiers Handbook Handbook for the Chemical Analysis of Plastic and Polymer Additives Handbook of Polyolefins Plastics Additives Handbook Plastics Additives, Volume 1 Plastics Additives and Modifiers Handbook Plastic Packaging Additives in Polymers Plastics Additives Plastic Packaging Materials for Food Polymer Science, Engineering, and Sustainability, 2 Volume Set Handbook of plastic and rubber additives Handbook of Plastics Technologies Plastics Additives Molecular Characterization and Analysis of Polymers S. E. Amos J. Murphy Helmut Müller Hans Zweifel John Murphy Jesse Edenbaum Michael Bolgar Cornelia Vasile Reinhard Gächter Ernest W. Flick Jesse Edenbaum Otto G. Piringer Jan C. J. Bart Ernest W. Flick Otto G. Piringer Enrique Saldivar-Guerra Michael Ash Charles A. Harper R. Gächter John M. Chalmers

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plastics without additives are not viable additives are essential to make plastics processable and to assure their end use properties over the last decade the demands on additives have continued to evolve not only because of changes in processing conditions and production techniques but also because plastics are being used in more demanding applications this revised edition described earlier by one reviewer as the bible for anyone involved in the chemistry and technology of plastics additives provides an excellent overview of the complex science and technology of plastics additives and their industry it offers guidance for all professionals involved in the development of new thermoplastic

resin grades and novel end use applications for the first time the electronic pages of the book are accessible and searchable see imprint with personal access code on the first page offering fast and easy access to specific information particularly trade names etc with the purchase of this book you also receive a free personal access code to download the ebook

both technically and economically additives form a large and increasingly significant part of the polymer industry both plastics and elastomers since the first edition of this book was published there have been wide ranging developments covering chemistry and formulation of new and more efficient additive systems and the safer use of additives both by processors in the factory and in the wider field as they affect the general public this new edition follows the successful formula of its predecessor it provides a comprehensive view of all types of additives concentrating mainly on their technical aspects chemistry formulation structure function main applications with notes on the commercial background of each the field has been expanded to include any substance that is added to a polymer to improve its use so including reinforcing materials such as glass fibre carbon black and titanium dioxide this is a book which has been planned for ease of use and the information is presented in a way which is appropriate to the users needs

this updated expanded volume has long been established as the bible for all those involved in the chemistry and technology of polymer additives

plastics without additives are not viable additives are essential to make plastics processable and to assure their end use properties

this volume presents unified data for the four compoundable plastics families and their additives and modifiers while emphasizing their use in various applications over a range of processes products temperature ranges and environmental conditions it discusses the history technology and blending of polyvinyl chlorides polyolefins styrenics and thermoplastic elastomers pvcs are covered in flexible rigid and liquid forms

polymers have undoubtedly changed the world through many products that improve our lives however additives used to modify the overall characteristics of these materials may not be fully disclosed or understood these additives may present possible environmental and health hazards it is important to monitor consumer products for these compounds u

a handbook on polyolefins this second edition includes new material on the structure morphology and properties of polyolefin po synthesis it focuses on synthetic advances the use of additives special coverage of po blends composites and fibres and surface

treatments it also addresses the problem of interfacial and superficial phenomena

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

presents the basic principles of the four compoundable plastic families and concentrates on the additives and modifiers needed to make high volume thermoplastics perform in various applications over a wide range of processes products temperature ranges and environmental conditions

plastics are the most important class of packaging materials this successful handbook now in its second edition covers all important aspects of plastic packaging and the interdisciplinary knowledge needed by food chemists pharmaceutical chemists food technologists materials scientists process engineers and product developers alike this is an indispensable resource in the search for the optimal plastic packaging materials characteristics additives and their effects mass transport phenomena quality assurance and recent regulatory requirements from fda and european commission are covered in detail with ample data

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

plastics have developed into the most important class of packaging materials their relative impermeability for substances from the surroundings has great influence on the shelf life and the quality of the packed goods at the same time the interaction between the contents and the various components of the packaging plays a decisive role this particular book is indispensable in the search for the optimal plastic packaging it facilitates the estimation of the influence on the goods which come from the surroundings and from the packaging the authors do not restrict themselves only to the description of the phenomena of diffusion or transport in theory but they show what they mean for practical applications food represents the central theme as main area of application for plastic packaging it can be considered to be the model substance and the findings are to be applied to many other products and systems the main rules and regulations for food packaging of the european community and the united states are presented in this book furthermore the authors emphasize the testing methods for proving the mass transport

and the sensory check of the quality of the products

an expert discussion of the basic science and production chain in the polymer industry in this 2 volume set of polymer science engineering and sustainability from fundamentals to applications in synthesis characterization and processing a team of distinguished researchers delivers a comprehensive discussion of polymer chemistry and industrial production the first volume covers polymer chemistry and engineering as well as industrial polymer production the second volume stresses physico chemical mechanical and advanced characterization techniques polymer processing principles and transformation processes advanced applications and sustainability and recycling principles and processes each volume features useful case studies as well as sections focused on sustainability that covers renewable and biobased polymers and polymer recycling they also emphasize sustainable practices guided by twelve principles of green chemistry readers will also find a thorough introduction to polymer chemistry and industrial polymer production comprehensive explorations of physico chemical characterization techniques practical discussions of mechanical and advanced characterization techniques and polymer processing principles and transformation processes complete treatments of sustainability and recycling principles and processes perfect for polymer scientists and engineers in industry polymer science engineering and sustainability 2 volume set will also benefit chemical engineers materials scientists and postgraduate students in polymer engineering or production programs

understand design and manufacture plastics this resource provides you with the state of the art information for the design manufacture and application of plastics as well as its cutting edge usage in nanotechnology includes the latest industry specifications and standards covers the latest recycling methods

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

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