

Hans Zweifel
Ralph D. Maier
Michael Schiller

Plastics Additives Handbook



6th Edition

HANSER

Plastic Additives Handbook

Michael Bolgar



Plastic Additives Handbook:

Plastics Additives Handbook Hans Zweifel,2001 *Plastics Additives Handbook* Helmut Müller,R. Gächter,1993 This updated expanded volume has long been established as the bible for all those involved in the chemistry and technology of polymer additives *Additives for Plastics Handbook* J. Murphy,2001-11-22 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 **Plastics Additives Handbook** S. E. Amos,Ralph D. Maier,Michael Schiller,2009 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 **Additives for Plastics Handbook** John Murphy,2001 **Plastics Additives Handbook** Helmut Müller,R. Gächter,Peter P. Klemchuk,1993-01-01 Handbook for the Chemical Analysis of Plastic and Polymer Additives Michael Bolgar,Jack Hubball,Joseph Groeger,Susan Meronek,2015-09-25 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 **Plastics Additives and Modifiers Handbook** Jesse Edenbaum,1996 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

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 *Handbook of plastic and rubber additives* Michael Ash, Irene Ash, 2005 **Handbook of Polyolefins** Cornelia Vasile, 2000-06-21 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 **Plastic And Rubber Additives Electronic Handbook**, 2003-12 This reference profiles in detail more than 22 000 trade name and generic chemicals that function as plastic and rubber additive ingredients in the formulation of a variety of end products in these important industries The extensive information about these functional materials has been gathered from more than 2300 worldwide manufacturers their subsidiaries and distributors Plastic additives are a diverse group of chemicals that are either incorporated into the plastic product prior to or during processing or applied to the surface of the product when processing has been completed These additives aid in the processing of the plastic end product e g blowing foaming agents mold release agents lubricants organic peroxides etc or improve the characteristics of the final product antimicrobials odorants antistatic agents colorants fillers extenders impact modifiers and UV stabilizers viscosity control agents etc Natural rubbers and synthetic elastomers derive their commercial versatility from the incorporation of additives classified into three categories antidegradants including antiozonants and antioxidants accelerators and vulcanizing agents and specialty additives e g blowing agents plasticizers flame retardants softeners This reference coalesces current and essential information about both trade name and generic chemical additives into a single source and expedites material selection for the user by cross referencing trade name products by chemical composition function application CAS number and EINECS number Full contact details for the manufacturers are also included **Plastics Additives and Modifiers Handbook** Jesse Edenbaum, 1992-03-26 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 Additives* R. Gachter, H. Muller, 1991-01-01 *Handbook of Polymer Processing Additives* George Wypych, 2023-02-07 Handbook of Polymer Processing Additives provides insights on the selection of additives their performance mechanisms essential application properties and a complete analysis of related literature and patents Acid scavengers air release anticaking antigassing anti gelling anti settling hydrolysis stabilizers and moisture scavengers are each covered Information on the use of additives in various products is divided into sections on types concentrations usage advantages and disadvantages effects on product properties and

examples of formulation Processing methods are similarly divided into sections on types and concentrations effects on the process effect on product properties advantages and disadvantages and examples of formulation All essential aspects of chemistry physical properties influence on properties of final products formulations methods of incorporation analysis and effects on health and environment are considered The book is an excellent companion to the Databook of Polymer Processing Additives Covers the applications manufacturing selection and performance mechanisms of polymer processing additives Provides a complete analysis of the current literature and patents of these additives Discusses reasons for use advantages and disadvantages effects on product properties methods of incorporation and effects on health and the environment Includes discussions on antiblocking agents antioxidants biocides flame retardants nucleating agents solvents plasticizers and more

Handbook of Plastic and Rubber Additives Michael Ash,2005 *Handbook for the Chemical Analysis of Plastic and Polymer Additives, Second Edition* Michael Bolgar,2012 **Plastics Additives** Geoffrey Pritchard,1997-11-30 Although plastics are extremely successful commercially they would never reach acceptable performance standards either in properties or processing without the incorporation of additives With the inclusion of additives plastics can be used in a variety of areas competing directly with other materials but there are still many challenges to overcome Some additives are severely restricted by legislation others interfere with each other in short their effectiveness varies with circumstances

Plastics Additives explains these issues in an alphabetical format making them easily accessible to readers enabling them to find specific information on a specific topic Each additive is the subject of one or more articles providing a succinct account of each given topic An international group of experts in additive and polymer science from many world class companies and institutes explain the recent rapid changes in additive technology They cover novel additives scorch inhibitors compatibilizers surface modified particulates etc the established varieties antioxidants biocides antistatic agents nucleating agents fillers fibres impact modifiers plasticizers and many others the articles also consider environmental concerns interactions between additives and legislative change With a quick reference guide and introductory articles that provide the non specialist and newcomer with relevant information this reference book is essential reading for anyone concerned with plastics and additives

Additives in Polymers Jan C. J. Bart,2005-03-11 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

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