

Blow Mold Design Guide

Subject Guide to Books in Print 1993

Plastic Blow Molding Handbook N.C. Lee 2012-12-27 Over the years, numerous handbooks and design guides on the subject of plastics have been published. None of these dealt in any depth with the subject of this handbook-blow molding. The recent growth of blow molding as an economically feasible process has been rapid in many areas. This growth, coupled with the lack of technical publications relating to blow molding, prompted the Board of Directors of the Blow Molding Division of the Society of Plastic Engineers to undertake the assimilation of available information and the editing of this milestone publication. We believe that this Plastic Blow Molding Handbook will provide the reader with a greater understanding of the unique process characteristics of blow molding, enable the reader to apply proven techniques in developing new products and applications for blow molding, and will serve as a valuable reference for all who are interested in the plastics industry. Our thanks are heartily extended to the various authors for their contributions to this pioneering effort in blow molding. J. H. Moran Chairman Blow Molding Division Society of Plastic Engineers xi Preface The blow molding of plastic articles has in the past had an aura of the mystic around it. As a result, little comprehensive work on the subject has been published. Advances in the technology of polymeric materials, machine controls, computer science, and management techniques have made it necessary to correct the myths and magic.

Plastics Mold Engineering Handbook J. Harry DuBois 1987-12-31

ASM Handbook ASM International. Handbook Committee 1997-12 This volume is a comprehensive reference on the basic concepts, methodologies, and information sources dealing with materials selection and its integration with engineering design processes. Contents include contributions from 100+ experts involved with design, materials selection, and manufacturing. Addresses metals, ceramics, polymers, and composites and provides many case histories and examples.

Plastics Mold Engineering Handbook John Harry DuBois 1978

Practical Guide To Injection Blow Molding Samuel L. Belcher 2007-03-05 Taking a straight-forward approach, the Practical Guide to Injection Blow Molding explores the entire industry from conception, design, costing, tooling, and machinery, to trouble-shooting, testing, and daily production. With information for both the novice investor and the plastic industry expert, this concise text is reinforced with pictures, charts, and figures. The author, a highly knowledgeable industry insider, and a member of The Plastics Hall of Fame, discusses the history of the industry, as well as its daily workings. He instructs in product and tooling design, as well as material and machine selection, explaining advantages and disadvantages, elaborating on efficiencies that can be realized.

Plastics Engineering Handbook Of The Society Of The Plastics Industry Society of the Plastics Industry 1991-08-31 Comprehensive guide to plastics processing methods, equipment and materials

Practical Guide to Blow Moulding N. C. Lee 2006 Blow moulding is a manufacturing process used to form hollow plastic parts. It evolved from the ancient art of glass blowing and it is used to particular advantage with plastic materials. Celluloid was used first to blow mould baby rattles and novelties in the 1930s, linear low-density polyethylene was used in the 1940s for high production bottles and these days polyethylene terephthalate is used to make anything from soda bottles, to highly sophisticated multilayered containers and automotive fuel tanks in the last decade. When designing a product it is important to consider aspects such as a material's characteristics, the processing methods available, the assembly and finishing procedures, and the life cycle and expected performance of the product. This book presents the basics of blow moulding as well as the latest state-of-the-art and science of the industry. A key feature is the approach of discussing the 'basics' and then taking the reader through the entire process from design development through to final production.

Plastics Design Handbook Marlene G. Rosato 2013-11-27 This book provides a simplified and practical approach to designing with plastics that fundamentally relates to the load, temperature, time, and

environment subjected to a product. It will provide the basic behaviors in what to consider when designing plastic products to meet performance and cost requirements. Important aspects are presented such as understanding the advantages of different shapes and how they influence designs. Information is concise, comprehensive, and practical. Review includes designing with plastics based on material and process behaviors. As designing with any materials (plastic, steel, aluminum, wood, etc.) it is important to know their behaviors in order to maximize product performance-to-cost efficiency. Examples of many different designed products are reviewed. They range from toys to medical devices to cars to boats to underwater devices to containers to springs to pipes to buildings to aircraft to space craft. The reader's product to be designed can directly or indirectly be related to product design reviews in the book. Important are behaviors associated and interrelated with plastic materials (thermoplastics, thermosets, elastomers, reinforced plastics, etc.) and fabricating processes (extrusion, injection molding, blow molding, forming, foaming, rotational molding, etc.). They are presented so that the technical or non-technical reader can readily understand the interrelationships.

Blow Molding Design Guide Norman C. Lee 2008 The second edition of this widely accepted book provides a general understanding of the blow molding process. It offers a practical, hands on approach, concentrating on real life, day to day problems faced by those working to create cost effective blow molded parts. The author uses an integrated approach to plastic part design, considering material properties, process benefits and limitations, mold engineering, decoration, finishing, and assembly techniques, while always keeping a focus on manufacturability issues.

Plastic Conversion Processes Eric Cybulski 2009-05-28 The explosion of plastic material development continues to generate a proliferation of conversion processes and variants of these methods. Unfortunately, most books on plastics conversion focus on a single process, such as injection molding, limiting their usefulness to readers without prior knowledge of the field. Few, if any, single-source texts

Practical Guide To Injection Blow Molding Samuel L. Belcher 2007-03-05 Taking a straight-forward approach, the Practical Guide to Injection Blow Molding explores the entire industry from conception, design, costing, tooling, and machinery, to trouble-shooting, testing, and daily production. With information for both the novice investor and the plastic industry expert, this concise text is reinforced with pictures, charts, and figures. The author, a highly knowledgeable industry insider, and a member of The Plastics Hall of Fame, discusses the history of the industry, as well as its daily workings. He instructs in product and tooling design, as well as material and machine selection, explaining advantages and disadvantages, elaborating on efficiencies that can be realized.

SPI Plastics Engineering Handbook of the Society of the Plastics Industry, Inc. Society of the Plastics Industry 1991-08-08 The Plastics Engineering Handbook provides a thorough description of all major plastics processing methods, including theory and practice. It offers a guide to materials selection, product design, and testing.

Handbook of Plastic Processes Charles A. Harper 2006-08-11 "Handbook of Plastic Processes is the only comprehensive reference covering not just one, but all major processes used to produce plastic products--helping designers and manufacturers in selecting the best process for a given product while enabling users to better understand the performance characteristics of each process. The authors, all experts in their fields, explain in clear, concise, and practical terms the advantages, uses, and limitations of each process, as well as the most modern and up-to-date technologies available in their application."--Publisher's website.

Plastics Institute of America Plastics Engineering, Manufacturing & Data Handbook D.V. Rosato 2001-11-30 This book provides a simplified, practical, and innovative approach to understanding the design and manufacture of plastic products in the World of Plastics. The concise and comprehensive information defines and focuses on past, current, and future technical trends. The handbook reviews over 20,000 different subjects; and contains over 1,000 figures and more than 400 tables. Various plastic materials and their behavior patterns are reviewed. Examples are provided of different plastic products and relating to

them critical factors that range from meeting performance requirements in different environments to reducing costs and targeting for zero defects. This book provides the reader with useful pertinent information readily available as summarized in the Table of Contents, List of References and the Index.

Plastics A. Brent Strong 2006

Machine Design 1987-10

DuBois and Pribble's Plastics Mold Engineering Handbook Eric L. Buckleitner 1995-05-31 From day one of the concept of this book (about 1941), our objective has been to make the clearest possible statements about the thinking processes which go into the good design of a mold. Carefully chosen illustrations show the rational process. Recommendations are made to maximize the effectiveness. Basically, the design of a mold is only one-third of the team effort in producing a particular plastic part. The best molder in the world will be handicapped by a badly designed or a badly made mold. The best mold maker in the world cannot make a good mold from a bad design. The best design in the world will only be the best when the mold is well made and operated by a knowledgeable molder. Being right the first time is, or should be, the prime objective of any mold designer. In the 1930's and 40's, it seemed every mold was an "invention." A 1500 ton compression press was a "monster." There were few design guidelines except the expertise of those toolmakers who had to use my designs. Fortunately for me, when a problem arose, my immediate mentor simply said, "Wayne, you designed it-go take care of the problem." The comments of those toolmakers were not always complimentary.

Blow Molding Handbook Dominick V. Rosato 2004 Every successful manufacturer of blow molded products faces the challenge of utilizing advanced techniques which demand an understanding of the different plastic melt flow behaviors, operational monitoring and control systems, testing and quality control, statistical analysis, and so on. However, these techniques are only helpful if the basic operations of molding are understood to ensure the elimination or a significant reduction of potential problems.

Handbook of Thermoplastic Elastomers Jiri George Drobny 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

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