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Classification of plastics  
by chemical structure and  
processing characteristics

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and relation with BEAREE  
resins Classification Name  
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polyesters. Hot topics such as 3-D printing and smart plastics are also included, giving plastics engineers the information they need to take these embryonic technologies and deploy them in their own work. With the increasing demands for lightness and fuel economy in the automotive industry (not least due to CAFÉ standards), plastics will soon be used even further in vehicles. A new chapter has been added to cover the technology trends in this area, and the book has been substantially updated to reflect advancements in technology, regulations, and the commercialization of

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plastics in various areas. Recycling of plastics has been thoroughly revised to reflect ongoing developments in sustainability of plastics. Extrusion processing is constantly progressing, as have the elastomeric materials, fillers, and additives which are available. Throughout the book, the focus is on the engineering aspects of producing and using plastics. The properties of plastics are explained, along with techniques for testing, measuring, enhancing, and analyzing them. Practical introductions to both core topics and new developments

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make this work equally valuable for newly qualified plastics engineers seeking the practical rules-of-thumb they don't teach you in school and experienced practitioners evaluating new technologies or getting up-to-speed in a new field. Presents an authoritative source of practical advice for engineers, providing guidance from experts that will lead to cost savings and process improvements. Ideal introduction for both new engineers and experienced practitioners entering a new field or evaluating a new technology. Updated to include the latest technology, including

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3D Printing, smart polymers,  
and thorough coverage of  
biopolymers and  
biodegradable plastics

I am pleased to present the Fifth Edition of the Plastics Engineering Handbook. Last published in 1976, this version of the standard industry reference on plastics processing incorporates the numerous revisions and additions necessitated by 14 years of activity in a dynamic industry. At that last printing, then-SPI President Ralph L. Harding, Jr. anticipated that plastics production would top 26 billion pounds in 1976 (up

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from 1.25 billion in 1947, when the First Edition of this book was issued). As I write, plastics production in the United States had reached almost 60 billion pounds annually. Indeed, the story of the U.S. plastics industry always has been one of phenomenal growth and unparalleled innovation. While these factors make compilation of a book such as this difficult, they also make it necessary. Thus I acknowledge all those who worked to gather and relate the information included in this 1991 edition and thank them for the effort it took to make the Plastics Engineering Handbook a

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definitive source and invaluable tool for our industry. Larry L. Thomas  
President The Society of the  
Plastics Industry, Inc.

A comprehensive reference on the properties, selection, processing, and applications of the most widely used nonmetallic engineering materials. Section 1, General Information and Data, contains information applicable both to polymers and to ceramics and glasses. It includes an illustrated glossary, a collection of engineering tables and data, and a guide to materials selection. Sections 2 through 7 focus on polymeric



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materials--plastics, elastomers, polymer-matrix composites, adhesives, and sealants--with the information largely updated and expanded from the first three volumes of the Engineered Materials Handbook. Ceramics and glasses are covered in Sections 8 through 12, also with updated and expanded information. Annotation copyright by Book News, Inc., Portland, OR

Introduction to Plastics Engineering provides a single reference covering the basics of polymer and plastics materials, and their properties, design,

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processing and applications in a practical way. The book discusses materials engineering through properties formulation, combining part design and processing to produce final products. This book will be a beneficial guide to materials engineers developing new formulations, processing engineers producing those formulations, and design and product engineers seeking to understand the materials and methods for developing new applications. The book incorporates material properties, engineering, processing, design, applications and sustainable

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engineering Provides a convenient reference for more experienced practitioners

The Plastics Handbook provides everything important there is to know about plastics, comprehensively compiled in a compact and well-organized format. From material properties to machines, processing, and applications, the user will find detailed information that allows the successful implementation of new materials and technologies. This concise, competent, modern reference not only explains the basic facts and

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Properties, Modifications of  
Plastic Materials) -  
Material Properties and  
Testing Methods - Plastic  
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Additives, Fillers, and  
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Overview

Many commercially important sub-categories exist under the polyarylether heading. Starting with polyphenylene ethers, the list includes polyarylethersulfones, polyaryletherketones, and polyetherimides. This handbook provides a database of these polymer families for researchers and plastic industry professionals who

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need a comprehensive reference on the structures and properties that have been achieved from this polymer class. Key features include tabular databases for the polyarylethers that have been synthesized, a collection of published procedures for the synthesis of polyarylethers, and a guide to their "engineering properties" as published by the manufacturers of the commercialized polyarylethers. Annotation copyright by Book News, Inc., Portland, OR

From material properties to processing technologies, the *Plastics Handbook* is a

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unique source of information for engineers.

Comprehensively updated, it serves as a practical guide for success in today's challenging, global industrial world. Searching for specific materials, trade names, properties, or other information is particularly easy, because the reader also has free access to the electronic version of the book.

This book is intended to be a source of practical information on all types of plastic foams (cellular plastics) in use, including the new structural plastic foams. Elastomer (rubber-



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like) foams are also considered. The book is intended primarily for those who require a non-theoretical, authoritative, easy-to-use handbook in the subject area. It should be of value to materials engineers, plastics fabricators, chemists, chemical engineers and students. Recognized authorities have written several chapters and parts of chapters in their fields of expertise. The book is organized in such a way that information on a desired subject can be found rapidly. An unusual feature is a comprehensive listing of all known standardization

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documents (test methods, practices, and specifications), including some international standards. Each document includes a brief description of its contents.

This book is for people involved in working with plastic material and plastic fabricating processes. The information and data in this book are provided as a comparative guide to help in understanding the performance of plastics and in making the decisions that must be made when developing a logical approach to fabricating plastic products to meet performance

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requirements at the lowest costs. It is formatted to allow for easy reader access and this care has been translated into the individual chapter constructions and index.

This book makes very clear the behaviour of the 35,000 different plastics with the different behaviours of the hundreds of processes.

Products reviewed range from toys to medical devices, to cars, to boats, to underwater devices, containers, springs, pipes, aircraft and spacecraft. The reader's product to be designed and/or fabricated can be directly or indirectly related to

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fabricating processes and/or  
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