

Engineering Plastic Handbook

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6 High Performance Multi-Purpose Engineering Plastics NTN BEAREE 1 Table 1.1 Classification of plastics by chemical structure and processing characteristics and relation with BEAREE resins Classification Name of plastics Aromatic polyester Polyetheretherketone Polyetherketone

ENGINEERING PLASTICS HANDBOOK – NTN Global

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A polyolefin is a polymer produced from an olefin or alkene as a monomer. In organic chemistry, an alkene, olefin, or olefine is an unsaturated chemical molecule containing at least one carbon to carbon double bond. The simplest alkene is ethylene. ?-Olefins have a double bond at the primary or ?-position.

Applied Plastics Engineering Handbook | ScienceDirect

Engineering polymers comprise a special, high-performance segment of synthetic plastic materials that offer premium properties. Polyamides, commonly called nylons, were the first commercial thermoplastic engineering polymers and are the prototype for the whole family of polyamides. Nylon was a new concept in plastics for several reasons.

Applied Plastics Engineering Handbook | ScienceDirect

Abstract and Figures Over the last several decades, thermoplastics have flour- ished, replacing traditional materials such as glass, metal, and wood. Today, they are a ubiquitous and irreplaceable...

(PDF) Applied Plastics Engineering Handbook

Machining is the fastest, most economical way to arrive at a finished plastic component, in particular for small produc- tion runs. Using the machining technique, finished com- ponents with extremely close tolerances can be produced from engineering and high-temperature plastics.

Engineering Plastics - The Manual

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Our portfolio of engineering plastics are developed with the knowledge that technology and innovation go hand-in-hand. They're used across a broad range of consumer goods, including white goods, food packaging, and sporting equipment. Building & construction. Building and construction are often resource-heavy activities. Today, engineering plastics can replace conventional materials in a ...

High Performance Plastics | DSM Engineering Materials

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Tougher and cheaper than other materials, thermoplastic resins are used in applications ranging from aircraft frames to glass windows. This is the first authoritative source for building and evaluating new product lines. Written by a top team of international experts, this reference incorporates the chemical, mechanical, and physical data necessary to compare and evaluate existing product lines with new and emerging products.

A practical reference for all plastics engineers who are seeking to answer a question, solve a problem, reduce a cost, improve a design or fabrication process, or even venture into a new market. Applied Plastics Engineering Handbook covers both polymer basics – helpful to bring readers quickly up to speed if they are not familiar with a particular area of plastics processing – and recent developments – enabling practitioners to discover which options best fit their requirements. Each chapter is an authoritative source of practical advice for engineers, providing authoritative guidance from experts that will lead to cost savings and process improvements. 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 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 on a new field The depth and detail of the coverage of new developments enables engineers and managers to gain knowledge of, and evaluate, new technologies and materials in key growth areas such as biomaterials and nanotechnology This highly practical handbook is set apart from other references in the field, being written by engineers for an audience of engineers and providing a wealth of real-world examples, best practice guidance and rules-of-thumb

Applied Plastics Engineering Handbook: Processing, Materials, and Applications, Second Edition, covers both the polymer basics that are helpful to bring readers quickly up-to-speed if they are not familiar with a particular area of plastics processing and the recent developments that enable practitioners to discover which options best fit their requirements. New chapters added specifically cover polyamides, polyimides, and 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 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 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 3D Printing, smart polymers, and thorough coverage of biopolymers and biodegradable plastics

Introduction to Plastics Engineering provides a single reference covering the basics of polymer and plastics materials, and their properties, design, 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 and bio based solutions. Ideal for those just entering the industry, or transitioning between sectors, this is a quick, relevant and informative reference guide to plastics engineering and processing for engineers and plastics practitioners. Provides a single unified reference covering plastics materials, properties, design, processing and applications Offers end-to-end coverage of the industry, from formulation to part design, processing, and the final product Serves as an ideal introductory book for new plastics engineers and students of plastics engineering Provides a convenient reference for more experienced practitioners

The first textbook to cover both properties and processing of reinforced and unreinforced plastics to this level. It assumes no prior knowledge of plastics and emphasizes the practical aspects of the subject. In this second edition over half the book has been rewritten and the remainder has been updated and reorganized. Early chapters give an introduction to the types of plastics which are currently available and describe how a designer goes about selection of a plastic for a particular application. Later chapters lead the reader into more advanced aspects of mechanical design and analysis of polymer melt flow. All techniques developed are illustrated by numerous worked examples, and several problems are given at the end of each chapter - the solutions to which form an Appendix.

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 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

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-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 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 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 plastic materials, fabricating processes and/or product design reviews in this book. *Essential for people involved in working with plastic material and plastic fabricating processes *Will help readers understand the performance of plastics *Helps readers to make decisions which meet performance requirements and to keep costs low

Brydson's Plastics Materials, Eighth Edition, provides a comprehensive overview of the commercially available plastics materials that bridge the gap between theory and practice. The book enables scientists to understand the commercial implications of their work and provides engineers with essential theory. Since the previous edition, many developments have taken place in plastics materials, such as the growth in the commercial use of sustainable bioplastics, so this book brings the user fully up-to-date with the latest materials, references, units, and figures that have all been thoroughly updated. The book remains the authoritative resource for engineers, suppliers, researchers, materials scientists, and academics in the field of polymers, including current best practice, processing, and material selection information and health and safety guidance, along with discussions of sustainability and the commercial importance of various plastics and additives, including nanofillers and graphene as property modifiers. With a 50 year history as the principal reference in the field of plastics material, and fully updated by an expert team of polymer scientists and engineers, this book is essential reading for researchers and practitioners in this field. Presents a one-stop-shop for easily accessible information on plastics materials, now updated to include the latest biopolymers, high temperature engineering plastics, thermoplastic elastomers, and more Includes thoroughly revised and reorganised material as contributed by an expert team who make the book relevant to all plastics engineers, materials scientists, and students of polymers Includes the latest guidance on health, safety, and sustainability, including materials safety data sheets, local regulations, and a discussion of recycling issues

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 interrelationships, but also serves as a practical guide for engineers to help them succeed in today's challenging, global industrial world. Searching for specific materials, properties, or any other information is particularly easy, because the reader also has free access to the electronic version of the book. The 5th edition is comprehensively updated throughout, with a new clearer layout. Also now in full color! Contents: - Common Acronyms in Plastics Technology - Introduction (Economic Significance, Classification, Composition, Effects of Processing on Properties, Modifications of Plastic Materials) - Material Properties and Testing Methods - Plastic Processing Technologies - Plastic Materials - Additives, Fillers, and Fibers - Material Properties Overview

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