

material selection guide

THERMOPLASTICS TRIANGLE

AMORPHOUS HIGH PERFORMANCE MATERIALS

- High Service Temperature
- High Strength
- Hot Water and Steam Resistance
- Thermof ormability
- Structural

AMORPHOUS ENGINEERING PLASTICS

- General Purpose Structural Parts
- Moderate Strength
- Moderate Temperature
- Good Dimensional Stability
- Good Impact
- Easy Fabricated

AMORPHOUS COMMODITY PLASTICS

- Low Temperature
- Low Strength
- Good Bondability
- Good Machinability
- Good Formability
- Low Cost

GENERAL CHARACTERISTICS

AMORPHOUS PLASTICS

- Softens Over a Wide Temperature Range
- Good Formability
- Transparent
- Poor Chemical Resistance
- Bonds Well Using Adhesives or Solvents
- Prone to Stress Cracking
- Poor Fatigue Resistance
- Structural Applications Only
- Not Suitable for Bearing and Wear

SEMI-CRYSTALLINE PLASTICS

- Sharp Melting Point
- Poor Formability
- Opaque
- Good Chemical Resistance
- Difficult to Bond Using Adhesives or Solvents
- Resistant to Stress Cracking
- Good Fatigue Resistance
- Good for Bearing and Wear
- as well as structural applications

IMIDIZED MATERIALS

- Best Physical Properties Above 400°F
- Best Temperature Resistance
- High Temperature, High Load Bearing
- and Wearing Capabilities
- Good Chemical Resistance
- Maintains Strength and Softness

SEMI-CRYSTALLINE HIGH PERFORMANCE MATERIALS

- High Service Temperature
- Excellent Chemical Resistance
- High Purity

SEMI-CRYSTALLINE ENGINEERING PLASTICS

- General Purpose Bearing and Wear or Structural Parts
- Moderate Strength and Softness
- Good Chemical Resistance
- Moderate Temperature

SEMI-CRYSTALLINE COMMODITY PLASTICS

- Low Temperature
- Low Strength
- Good Chemical Resistance
- Low Moisture Absorption
- Lower Cost

GENERAL CHARACTERISTICS

materials	AMORPHOUS THERMOPLASTICS										SEMICRYSTALLINE THERMOPLASTICS										IMIDIZED MATERIALS					THERMOSET COMPOSITES				
	ABS	AMYLIC	PMMA	PC	PET	POLYCARBONATE	POLYSTYRENE	POLYURETHANE	PP	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK

Plastic Material Selection Guide

RD Boyd



Plastic Material Selection Guide:

Handbook of Materials Selection Myer Kutz, 2002-07-22 An innovative resource for materials properties their evaluation and industrial applications The Handbook of Materials Selection provides information and insight that can be employed in any discipline or industry to exploit the full range of materials in use today metals plastics ceramics and composites This comprehensive organization of the materials selection process includes analytical approaches to materials selection and extensive information about materials available in the marketplace sources of properties data procurement and data management properties testing procedures and equipment analysis of failure modes manufacturing processes and assembly techniques and applications Throughout the handbook an international roster of contributors with a broad range of experience conveys practical knowledge about materials and illustrates in detail how they are used in a wide variety of industries With more than 100 photographs of equipment and applications as well as hundreds of graphs charts and tables the Handbook of Materials Selection is a valuable reference for practicing engineers and designers procurement and data managers as well as teachers and students

Thermoplastic Material Selection Eric R. Larson, 2015-04-30 Thermoplastic Material Selection A Practical Guide presents current information on how proper material selection is a critical component of any manufactured product The text is a practical guide to a difficult process giving the reader a fundamental grounding in thermoplastic materials and providing the tools they need to save time money and frustration The book provides an overview of the most commonly used thermoplastic materials including discussions of the different chemical families plastics categories and material grades and the implications of these differences on the material selection process It provides fresh insights on the traditional methods of material selection based on performance and cost and also discusses the use of non traditional methods based on subjective evaluation Subsequent sections include references on tools that can be used to conduct further exploration how to accurately select the most suitable material writing an effective material specification and working with material suppliers and distributors Presents current information on how proper thermoplastics material selection is a critical component of any manufactured product A practical guide to a difficult process giving the reader a fundamental grounding in thermoplastics material selection and providing the tools they need to save time money and frustration Delivers insights on the traditional methods of material selection based on performance and cost and introduces nontraditional methods based on size form appearance and feel

Plastic Product Material and Process Selection Handbook Dominick V Rosato, Donald V Rosato, Matthew v Rosato, 2004-08-04 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 **Plastic Materials Selection**

Guide Paul F. Kusy, Society of Automotive Engineers, 1976 **Plastics Design Handbook** Marlene G. Rosato, D.V. 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 spacecraft 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 **Source Book on Materials Selection** , 1977 Plastics Institute of America Plastics Engineering, Manufacturing & Data Handbook D.V. Rosato, Nick R. Schott, Marlene G. 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

Characterization and Failure Analysis of Plastics ASM International, Steve Lampman, 2003-01-01 The selection and application of engineered materials is an integrated process that requires an understanding of the interaction between materials properties manufacturing characteristics design considerations and the total life cycle of the product This

reference book on engineering plastics provides practical and comprehensive coverage on how the performance of plastics is characterized during design property testing and failure analysis The fundamental structure and properties of plastics are reviewed for general reference and detailed articles describe the important design factors properties and failure mechanisms of plastics The effects of composition processing and structure are detailed in articles on the physical chemical thermal and mechanical properties Other articles cover failure mechanisms such as crazing and fracture impact loading fatigue failure wear failures moisture related failure organic chemical related failure photolytic degradation and microbial degradation Characterization of plastics in failure analysis is described with additional articles on analysis of structure surface analysis and fractography Plastic Materials Selection Guide Paul F. Kusy,1976 *A Practical Guide to Plastics Sustainability* Michel Biron,2020-04-18 A Practical Guide to Plastics Sustainability Concept Solutions and Implementation is a groundbreaking reference work offering a broad detailed and highly practical vision of the complex concept of sustainability in plastics The book s aim is to present a range of potential pathways towards more sustainable plastics parts and products enabling the reader to further integrate the idea of sustainability into their design process It begins by introducing the context and concept of sustainability discussing perceptions drivers of change key factors and environmental issues before presenting a detailed outline of the current situation with types of plastics processing and opportunities for improved sustainability Subsequent chapters focus on the different possibilities for improved sustainability offering a step by step technical approach to areas including design properties renewable plastics and recycling and re use Each of these pillars are supported by data examples analysis and best practice guidance Finally the latest developments and future possibilities are considered Approaches the idea of sustainability from numerous angles offering practical solutions to improve sustainability in the development of plastic components and products Explains how sustainability can be applied across plastics design materials selection processing and end of life all set alongside socioeconomic factors Considers key areas of innovation such as eco design novel opportunities for recycling or re use bio based polymers and new technologies *Designing with Plastics and Composites: A Handbook* Donald Rosato,2013-04-18 For some time there has been a strong need in the plastic and related industries for a detailed practical book on designing with plastics and composites reinforced plastics This one source book meets this criterion by clearly explaining all aspects of designing with plastics as can be seen from the Table of Contents and Index It provides information on what is ahead as well as today s technology It explains how to interrelate the process of meeting design performance requirements with that of selecting the proper plastic and manufacturing process to make a product at the lowest cost This book has been prepared with an awareness that its usefulness will depend greatly upon its simplicity The overall guiding premise has therefore been to provide all essential information Each chapter is organized to best present a methodology for designing with plastics and composites of industrial designers whether in engineering This book will prove useful to all types or involved in products molds dies or equipment and to people in new

product ventures research and development marketing purchasing and management who are involved with such different products as appliances the building industry autos boats electronics furniture medical recreation space vehicles and others In this handbook the basic essentials of the properties and processing behaviors of plastics are presented in a single source intended to be one the user will want to keep within easy reach *Concise Encyclopedia of Plastics* Marlene G. Rosato,D.V. Rosato,2012-12-06 After over a century of worldwide production of all kinds of products cost estimators buyers vendors consultants of products the plastics industry is now the fourth largest and others industry in the United States This brief concise and practical The bulk of the book is the alphabetical listing of entries tical book is a cutting edge compendium of the plastics industry Preceding those entries is A Plastics Overview Figure industry's information and terminology ranging from figures and Tables which presents eight summary guides on design materials and processes to testing quality control the subjects examined in the text and then the World of regulations legal matters and profitability New and use Plastics Reviews which presents 14 articles that provide full developments in plastic materials and processing comprehensive introductory information comprehensive updates continually are on the horizon and the examples of these developments and important networking avenues within the world of developments that are discussed in the book provide guides plastics Following the alphabetical listing of entries at the end to past and future trends end of the encyclopedia seven appendices provide background This practical and comprehensive book reviews the ground and source guide information keyed to the text of the book The extensive and useful Appendix A List of plastics industry virtually from A to Z through its more than 25 000 entries Its concise entries cover the basic is Abbreviations lists all abbreviations used in the text OECD Series on Risk Management of Chemicals A Chemicals Perspective on Designing with Sustainable Plastics Goals, Considerations and Trade-offs OECD,2021-12-07 The development of plastic products does not systematically take sustainability particularly from a chemicals perspective into account This report seeks to enable the creation of inherently sustainable plastic products by integrating sustainable chemistry thinking in the design process **Plastic Material Properties for Engineering Design** ,1991 Extruding Plastics D.V. Rosato,2013-11-27 Worldwide extrusion lines successfully process more plastics into products than other processes by consuming at least 36 wt% of all plastics They continue to find practical solutions for new products and or problems to meet new product performances This book with its practical industry reviews is a unique handbook the first of its kind that covers over a thousand of the potential combinations of basic variables or problems with solutions that can occur from upstream to downstream equipment Guidelines are provided for maximizing processing efficiency and operating at the lowest possible cost It has been prepared with an awareness that its usefulness will depend greatly upon its simplicity and provision of essential information It should be useful to 0 those already extruding and desiring to obtain additional information for their line and or provide a means of reviewing other lines that can provide their line with operating improvements 2 those processing or extruding plastics for the first time 3 those considering going into another extrusion process 4 those desiring

additional information about employing the design of various products more efficiently with respect to both performance and cost 5 those contemplating entering the business of extrusion 6 those in new venture groups materials development and or market development 7 those in disciplines such as nonplastics manufacturers engineers designers quality control financial and management and 8 those requiring a textbook on extrusion in trade schools and high schools or colleges **Handbook of Thermoplastics** Olagoke Olabisi, Kolapo Adewale, 2016-02-03 This new edition of the bestselling Handbook of Thermoplastics incorporates recent developments and advances in thermoplastics with regard to materials development processing properties and applications With contributions from 65 internationally recognized authorities in the field the second edition features new and updated discussions of seven **Metering Pump Handbook** Robert E. McCabe, Philip G. Lanckton, William V. Dwyer, 1984 An outstanding reference the Handbook is designed for metering pump designers and engineers working in all industries Easily accessible information includes fundamentals of metering pump operation principles of pump and piping system design guidelines for selection pump construction materials procedures for installation operation and maintenance of metering pumps and general formulas tables charts and pumping system layouts Presents the basic principles of the positive displacement pump Develops in depth analysis of the design of reciprocating metering pumps and their piping systems Demonstrates the practical implementation of these concepts through examples of actual pump applications **Designing Successful Products with Plastics** Mark T. MacLean-Blevins, 2024-05-03 Designing Successful Products with Plastics Fundamentals of Plastic Part Design 2e provides expert insight into design considerations required to bring a concept product or part through design and ready for production Rather than focusing on design rules and engineering equations used during product development the emphasis of the book is on what the designer needs to consider during the early conceptual visualization stages and in the detailed stages of the design process This fully updated edition features new practical advice on how to design sustainably throughout the book This approach will bridge the gap between the industrial designer tasked with the big picture product design and use and the part designer tasked with the detailed plastic part design for manufacture Useful to both experienced and novice designers this book brings valuable design process information through specific examples enabling designers and engineers in the plastics industry to effectively use the available technical information to successfully design and manufacture new products Brings together the worlds of the plastic part designer and the industrial designer and shows how each impacts the success of a development project Teaches the Four Pillars considerations Materials Processes Tooling and Design required for every design decision to be made during a plastic part design project The interrelationship of these considerations with the sustainability intent for the product being developed is taught and illustrated within this new edition Illustrates the product design process roadmap from creation of the concept through implementation into manufacturing highlighting steps and methods used throughout the process to limit risk and ensure success Includes methods and design project management techniques used to ensure an efficient design

process and successful manufacturing of the product or part *Recycling of Plastics, Metals, and Their Composites* R.A. Ilyas, S.M. Sapuan, Emin Bayraktar, 2021-12-27 Having a solid understanding of materials recycling is of high importance especially due to the growing use of composites in many industries and increasingly strict legislation and concerns about the disposal of composites in landfills or by incineration *Recycling of Plastics Metals and Their Composites* provides a comprehensive review of the recycling of waste polymers and metal composites It provides the latest advances and covers the fundamentals of recycled polymers and metal composites such as preparation morphology and physical mechanical thermal and flame retardancy properties FEATURES Offers a state of the art review of the recycling of polymer composites and metal composites for sustainability Describes a life cycle analysis to help readers understand the true potential value and market for these recycled materials Details potential applications of recycled polymer and metal composites Includes the performance of natural fiber reinforced recycled thermoplastic polymer composites under aging conditions and the recycling of multi material plastics Covers recycling technologies opportunities and challenges for polymer matrix composites This book targets technical professionals in the metal and polymer industries as well as researchers scientists and advanced students It is also of interest to decision makers at material suppliers recycled metal and polymer product manufacturers and governmental agencies working with recycled metal and polymer composites Thermoplastic Polymers Mr. Rohit Manglik, 2024-01-26 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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