

Material	Approx Tensile Strength	Flexibility	Impact Strength	Electrical Insulation	Temp Resistance	Chemical Resistance	FDA Compliant	Cost (low-high)	Water Resistant
Acrylic (PMMA)	8000 psi	low	low	no	high	strong	no	medium	yes
Acrylonitrile Butadiene Styrene (ABS)	5900 psi	high	high	no	low	medium	no	medium	yes
Nylon Polyamide (PA)	12400 psi	high	high	yes	high	strong	yes	high	yes
Polycarbonate (PC)	9500 psi	high	high	no	high	weak	Yes (can contain BPA)	high	yes
Polyethylene (PE) 1. LDPE 2. HDPE 3. PET	1. 1400 psi 2. 3480-6530 psi 3. 800-13100 psi	1. medium 2. low 3. high	1. high 2. High 3. low	yes	low	1. strong 2. strong 3. strong	yes	low	yes
Polyoxymethylene (POM)	6400 - 10600 psi	medium	high	yes	high	strong	yes	high	
Polypropylene (PP)	4800 psi	high	medium	yes	medium	strong	yes	low	yes
Polystyrene (PS)	2560 - 7690 psi	medium	high	no		medium	yes	low	yes
Thermoplastic Elastomer (TPE)	290 - 8200 psi	high	high	no	low	strong	no	high	yes
Thermoplastic Polyurethane (TPU)	4060 - 13900 psi	high		no	high	strong	yes	medium	yes
PC/ABS	7000 psi	low	high	no	medium	strong	yes	low	yes
PC/PBT	7830 - 12000 psi	low	high	yes	high	medium	yes	medium	yes
PPE/PS	6500 psi	low	medium	no	high	medium	yes	medium	yes

# Mould Material Selection Guide

**Vannessa Goodship**



## **Mould Material Selection Guide:**

*ARBURG Practical Guide to Injection Moulding* Vanessa Goodship, 2017-02-27 This book details the factors involved in the injection moulding process from material properties and selection to troubleshooting faults and includes the equipment types currently in use and machine settings for different types of plastics. Material flow is a critical parameter in moulding and there are sections covering rheology and viscosity. High temperature is also discussed as it can lead to poor quality mouldings due to material degradation. The text is supported by 74 tables many of which list key properties and processing parameters and 233 figures there are also many photographs of machinery and mouldings to illustrate key points. Troubleshooting flow charts are also included to indicate what should be changed to resolve common problems. Injection moulding in the Western World is becoming increasingly competitive as the manufacturing base for many plastic materials has moved to the East. Thus Western manufacturers have moved into more technically difficult products and mouldings to provide enhanced added value and maintain market share. Technology is becoming more critical together with innovation and quality control. There is a chapter on advanced processing in injection moulding covering multimaterial and assisted moulding technologies. This guide will help develop good technical skills and appropriate processing techniques for the range of plastics and products in the marketplace. Every injection moulder will find useful information in this text. In addition, this book will be of use to experts looking to fill gaps in their knowledge base as well as those new to the industry. ARBURG has been manufacturing injection moulding machines since 1954 and is one of the major global players. The company prides itself on the support offered to clients which is exemplified in its training courses. This book is based on some of the training material and hence is based on years of experience.

**Injection Molding Handbook** D.V. Rosato, Marlene G. Rosato, 2012-12-06 This third edition has been written to thoroughly update the coverage of injection molding in the World of Plastics. There have been changes including extensive additions to over 50% of the content of the second edition. Many examples are provided of processing different plastics and relating the results to critical factors which range from product design to meeting performance requirements to reducing costs to zero defect targets. Changes have not been made that concern what is basic to injection molding. However, more basic information has been added concerning present and future developments resulting in the book being more useful for a long time to come. Detailed explanations and interpretation of individual subjects more than 1500 are provided using a total of 914 figures and 209 tables. Throughout the book there is extensive information on problems and solutions as well as extensive cross referencing on its many different subjects. This book represents the *ENCYCLOPEDIA on IM* as is evident from its extensive and detailed text that follows from its lengthy Table of CONTENTS and INDEX with over 5200 entries. The worldwide industry encompasses many hundreds of useful plastic related computer programs. This book lists these programs ranging from operational training to product design to molding to marketing and explains them briefly but no program or series of programs can provide the details obtained and

the extent of information contained in this single sourcebook  
*Engineering* Marcel H. Van de Voorde, Claude Restat, 1972

*Selection Guide to Organic Materials for Nuclear  
Official Reference Book and Buyers' Guide*, 1988

**Materials Selection in Mechanical Design** Michael F. Ashby, 2016-09-23 Materials Selection in Mechanical Design Fifth Edition winner of a 2018 Textbook Excellence Award Texty describes the procedures for material selection in mechanical design in order to ensure that the most suitable materials for a given application are identified from the full range of materials and section shapes available Extensively revised for this fifth edition the book is recognized as one of the leading materials selection texts providing a unique and innovative resource for students engineers and product industrial designers Winner of a 2018 Textbook Excellence Award Texty from the Textbook and Academic Authors Association Includes significant revisions to chapters on advanced materials selection methods and process selection with coverage of newer processing developments such as additive manufacturing Contains a broad scope of new material classes covered in the text with expanded data tables that include functional materials such as piezoelectric magnetostrictive magneto caloric and thermo electric materials Presents improved pedagogy such as new worked examples throughout the text and additional end of chapter exercises moved from an appendix to the relevant chapters to aid in student learning and to keep the book fresh for instructors through multiple semesters Forces for Change chapter has been re written to outline the links between materials and sustainable design

**The Moulder's and Founder's Pocket Guide** Frederick Overman, 1878 Britannia  
company's buyers' guide to technical books in the mechanical arts Britannia co, 1892

**CERN.**, 1972 **Cassell's household guide** Cassell, ltd, 1881 **ASM Specialty Handbook** Joseph R. Davis, 1995-01-01 If you are involved with machining or metalworking or you specify materials for industrial components this book is an absolute must It gives you detailed and comprehensive information about the selection processing and properties of materials for machining and metalworking applications They include wrought and powder metallurgy tool steels cobalt base alloys cemented carbides cermets ceramics and ultra hard materials You ll find specific guidelines for optimizing machining productivity through the proper selection of cutting tool materials plus expanded coverage on the use of coatings to extend cutting tool and die life There is also valuable information on alternative heat treatments for improving the toughness of tool and die steels All new material on the correlation of heat treatment microstructures and properties of tool steels is supplemented with dozens of photomicrographs Information on special tooling considerations for demanding applications such as isothermal forging die casting of metal matrix composites and molding of corrosive plastics is also included And you ll learn about alternatives to ferrous materials for metalworking applications such as carbides cermets ceramics and nonferrous metals like aluminum nickel and copper base alloys **Engineered Materials Abstracts**, 1995-04 Archaeological Conservation Using Polymers C. Wayne Smith, 2003 Conservation techniques used up to now however have provided artifacts only a limited lifespan and in some cases they do not work well with waterlogged materials Within the past few years archaeological

chemistry and concerns of longevity testing have become central issues in the development of conservation treatment strategies

**Powder Injection Molding** Randall M. German, 2003      *International Patent Classification: Guide, survey of classes, and summary of main groups*, 1989      *Guidelines for Establishing a Demonstration Foundry in a Developing Country* United Nations Industrial Development Organization, 1976      **Cassell's Household Guide: Being a Complete Encyclopaedia of Domestic and Social Economy, Etc** Cassell & Company, 1877      **Engineering Materials and Design**, 1989      *Materials World*, 2002      *Moulds for Plastics* William Mawson Halliday, 1949      **The Business of Injection Molding** Clare Goldsberry, 1998

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