



# Handbook of Plastics, Elastomers, and Composites

*From McGraw-Hill (Tx)*

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## **Handbook of Plastics, Elastomers, and Composites** From McGraw-Hill (Tx)

Aiming to provide a broad range of new industrial techniques and developments, this book presents the latest information, data and guidelines. It also categorizes plastics and elastics, identifies the materials in each category and presents the advantages of each for major products. The new edition of this reference also examines the chemical and mechanical properties of plastics and elastomers, showing engineers how to utilize these materials in designing products as well as for protective and decorative coatings. This volume now covers a range of new thermoplastics, advances in the development of thermoplastic elastomers, new developments in processing advanced composite materials, the latest high-performance requirements for products with both chemical and mechanical applications, improvements in plastic compositions and processing capabilities and the health and safety aspects of plastics.

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## **Editorial Review**

Review

Edited by Scott Beckwith SAMPE Technical Director

Charlie Harper is back with another updated Handbook in a long series of successful handbooks. The 4th Edition is larger, updated, and heavily revised. The publication is a thorough sourcebook of practical design, manufacturing and data for all ranges of interests. One of its strengths is that it contains an extensive array of property and performance data, presented as a function of the more important product variables. Further, it presents all the important aspects of application guidelines, fabrication-method trade-offs, design, finishing, performance limits, and other basic polymer and plastic properties. The Handbook's other major features include thorough lists of standards and specifications sources, a completely cross-referenced easy-to-use index, a comprehensive glossary, useful end-of-chapter reference lists, and several appendices containing individual data and information for product engineers. Highly recommended as a reference book. (*SAMPE Journal* 2002-10-01)

From the Back Cover

The newest information on plastics, elastomers, and composites--for all types of products Handbook of Plastics, Elastomers, and Composites, Third Edition. This Third Edition of an essential handbook presents the latest information and guidelines for using plastics, elastomers, and composites in all types of designs, including molded and thermoformed products, protective and decorative coatings, and much more. New chapters focusing on advanced uses of plastics in automotive and packaging designs and on recycling of plastics will be of special interest to all professionals in the field. Featuring a comprehensive treatment of the chemical, mechanical, and electrical properties of plastics, elastomers, and composites, the Handbook gives you up-to-date and complete coverage of: Plastic compositions and optimizations of plastic product design; Advances in thermoplastic elastomers; New developments in applying and processing advanced composite materials; Plastics and elastomers for high-volume, high-performance automotive and packaging applications; Important factors in the recycling of plastics. Whether you're a mechanical, electrical, materials, or chemical engineer, this comprehensive Handbook will give you all the information you need to know concerning the latest plastics, elastomers, and composites.

About the Author

**Charles Harper** is President of Technology Seminars, an organization located in Lutherville, MD, devoted to providing educational training courses on an industry-wide basis. He has had an esteemed career both in industry and teaching. Mr. Harper is Series Editor for both the Materials Science and Engineering Series, and the Electronic Packaging and Interconnection Series, published by McGraw-Hill. He serves on the Advisory Board for several professional and business organizations. He is a graduate of The Johns Hopkins University, where he has also served as Adjunct Professor. Mr. Harper has had active and leadership roles in several plastics, materials, and electronic packaging professional societies, and holds the honorary level of Fellow in both the Society for the Advancement of Materials and Process Engineering (SAMPE) and the International Microelectronics and Packaging Society (IMAPS), for which he is also a Past President.

## **Users Review**

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**David Smith:**

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