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By Charles Harper



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*Handbook of Plastics, Elastomers, and Composite*, 4th Edition, places state-of-the-art information on plastics, elastomers, and composites at your fingertips. The revised and updated edition presents all of the fundamental information required to understand the large number of materials and material forms, and provides the necessary data and guidelines for optimal use of these materials and forms in the broad range of industrial products, ensuring the highest performance from materials.

Thoroughly revised, this new edition features the latest advance in properties of plastics, elastomers, and composites while providing practical examples throughout. Thermosets, plastics in coatings and finishes, thermoplastics and plastics in packaging are covered.



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## **Handbook of Plastics, Elastomers & Composites (Handbook) By Charles Harper Bibliography**

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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

### **SELECT THE RIGHT PLASTICS FOR YOUR DESIGN IN SECONDS!**

Here in one definitive volume are the latest information and guidelines on plastics, elastomers, and composites – for all types of designs, including molded and thermoformed products, protective and decorative coatings, and more.

Featuring a comprehensive treatment of the chemical, mechanical, and electrical properties of plastics, elastomers, and composites, the Handbook gives you state-of-the-art coverage of:

- \* Plastic compositions and optimizations of plastic product design
- \* Advances in thermoplastic elastomers
- \* New developments in applying and processing advanced composition materials
- \* Plastics and elastomers for high-volume, high-performance automotive and packaging applications
- \* Important factors in recycling of plastics
- \* And much more

The Fourth Edition offers new chapters on the advanced use of plastics in automotive and packaging designs and the recycling of plastic composites.

Whether you're a mechanical, electrical, materials, or chemical engineer, this powerful reference will help you to design better and faster – and take advantage of new stronger and cheaper materials.

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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