



## Szycher's Handbook of Polyurethanes, Second Edition

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**Szycher's Handbook of Polyurethanes, Second Edition** From Brand: CRC Press

A practical handbook rather than merely a chemistry reference, **Szycher's Handbook of Polyurethanes, Second Edition** offers an easy-to-follow compilation of crucial new information on polyurethane technology, which is irreplaceable in a wide range of applications. This new edition of a bestseller is an invaluable reference for technologists, marketers, suppliers, and academicians who require cutting-edge, commercially valuable data on the most advanced uses for polyurethane, one of the most important and complex specialty polymers.

internationally recognized expert **Dr. Michael Szycher** updates his bestselling industry "bible"

With seven entirely new chapters and five that are revised and updated, this book summarizes vital contents from U.S. patent literature?one of the most comprehensive sources of up-to-date technical information. These patents illustrate the most useful technology discovered by corporations, universities, and independent inventors. Because of the wealth of information they contain, this handbook features many full-text patents, which are carefully selected to best illustrate the complex principles involved in polyurethane chemistry and technology.

Features of this landmark reference include:

- Hundreds of practical formulations
- Discussion of the polyurethane history, key terms, and commercial importance
- An in-depth survey of patent literature
- Useful stoichiometric calculations
- The latest "green" chemistry applications
- A complete assessment of medical-grade polyurethane technology

Not biased toward any one supplier's expertise, this special reference uses a

simplified language and layout and provides extensive study questions after each chapter. It presents rich technical and historical descriptions of all major polyurethanes and updated sections on medical and biological applications. These features help readers better understand developmental, chemical, application, and commercial aspects of the subject.

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## **Editorial Review**

### Review

"The book can be highly recommended to practitioners."

?*Polymer News*

"... a valuable resource ... brings together information from a wide variety of academic and commercial sources. The handbook contains a wealth of information from the patent literature which reflects the commercial importance of polyurethanes and provides direction for future research and development activities."

?Andrew M. Reed, Ph.D., President, AMRAR, LLC

"... prepared by an expert user of polyurethanes and covers all the arms of the polyurethane family. The patent and general references allows further in depth studies to be carried out by researchers. ... brings together data from many sources and is not biased toward any one supplier's expertise. ... covers the materials as well as the specialist materials that are used in the polyurethane industry."

?Ian Clemitson, Retired Industrial Chemist, Bellmere, Qld, Australia

"Overall, the 2<sup>nd</sup> ed of **Szycher's Handbook of Polyurethanes** offers excellent and crucial new information on polyurethanes technology. It is of essential help for readers to understand better all aspects relevant to this field, from fundamentals of polyurethanes to their development, applications and commercial aspects. Remember Robert Quillen's quote that 'if we wish to make a new world we need to have the material ready'? From this perspective, the 2<sup>nd</sup> ed of Szycher's polyurethane handbook brings substantial contribution towards the inexhaustible field of polyurethanes, so to help prepare them 'ready' for future."

?by Cristina Prisacariu, Institute of Macromolecular Chemistry "Petru Poni", Iasi, Romania

### About the Author

Noted entrepreneur **Dr. Michael Szycher** is chairman and CEO of CardioTech International, Inc., a manufacturer of medical products based on specialized polyurethanes. He holds a Ph.D from Boston University School of Medicine and an MBA from Suffolk University. He is an internationally recognized expert in medical-grade polyurethanes and blood-compatible polymers and was a pivotal force in the creation of the Medical Plastics Division of the Society of Plastics Engineers (SPE). He is also founding editor of the *Journal of Biomaterials Applications*.

## **Users Review**

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#### **Dennis Boone:**

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