

1. Record Nr.	UNINA9910465397503321
Titolo	Szycher's handbook of polyurethanes // [edited by] Michael Szycher
Pubbl/distr/stampa	Boca Raton, Fla : , : CRC Press, , 2012
ISBN	0-429-10890-7 1-5231-0802-9 1-4398-6313-X
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (1113 p.)
Altri autori (Persone)	SzycherM (Michael)
Disciplina	668.4/239
Soggetti	Polyurethanes Plastics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Front Cover; Contents; Preface; Acknowledgment; Editor; Contributors; Chapter 1 - Introduction; Chapter 2 - Basic Concepts in Polyurethane Chemistry and Technology; Chapter 3 - Structure-Property Relations in Polyurethanes; Chapter 4 - Isocyanate Chemistry; Chapter 5 - Polyols; Chapter 6 - Chain Extenders; Chapter 7 - Flexible and Semiflexible Foams; Chapter 8 - Rigid Polyurethane Foams; Chapter 9 - Polyurethane Foam Surfactants; Chapter 10 - Catalysis of Isocyanate Reactions; Chapter 11 - Elastomers; Chapter 12 - Reaction Injection Molding; Chapter 13 - Polyurethane Adhesives Chapter 14 - Waterborne PolyurethanesChapter 15 - Health and Safety; Chapter 16 - Radiation-Curable Adhesives and Coatings; Chapter 17 - Processing Methods; Chapter 18 - Compounding Ingredients; Chapter 19 - Copolymers and Polyblends; Chapter 20 - Polyurethane Coatings; Chapter 21 - Castables, Sealants, and Caulking Compounds; Chapter 22 - Medical Applications; Chapter 23 - Resorbable Polyurethanes; Chapter 24 - Biodurable Polyurethanes; Chapter 25 - Antimicrobial Polyurethanes; Chapter 26 - Hydrophilic Polyurethanes; Chapter 27 - Biocompatibility Testing Chapter 28 - Eco-Friendly PolyurethanesChapter 29 - Processing Thermoplastics Urethanes via Twin Screw Extrusion; Chapter 30 -

Infrared Analysis of Medical-Grade Polyurethane Elastomers: Can Durometer Hardness Be Determined by IR Analysis?; Appendix A: Polyurethane Suppliers and Manufacturers; Appendix B: Urethane Processing Systems; Appendix C: Glossary; Appendix D: Conversions and Formulas; Back Cover

Sommario/riassunto

Written as a reference for polyurethane technologists and end users, raw materials suppliers, and students in the field, this second edition covers the technical advances in the field over the past 10 years. Filled with tables, charts, and photographs, it includes new data on green polyurethanes, automotive applications, new coatings, new manufacturing equipment, new health-care uses, and other topics. Individuals from all major polyurethane intermediate suppliers and equipment manufacturers contributed to this updated handbook, and discuss current products and provide a comprehensive list of product portfolios--
