

1. Record Nr.	UNINA9911007371903321
Autore	Fink Johannes Karl
Titolo	High performance polymers // Johannes Karl Fink
Pubbl/distr/stampa	Norwich, NY, : William Andrew, c2008
ISBN	1-282-76973-1 9786612769733 0-08-094760-3 1-282-25304-2 9786612253041 0-8155-1975-3
Descrizione fisica	1 online resource (633 p.)
Collana	Industrial polymers technology and applications
Disciplina	620.1/92
Soggetti	Polymer engineering Polymers - Industrial applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; HIGH PERFORMANCE POLYMERS; Copyright Page; Contents; Preface; Chapter 1. Carbazole Polymers; 1.1 Monomers; 1.2 Polymerization and Fabrication; 1.3 Properties; 1.4 Applications; 1.5 Suppliers and Commercial Grades; 1.6 Safety; References; Chapter 2. Poly(p-xylylene)s; 2.1 Monomers; 2.2 Polymerization and Fabrication; 2.3 Properties; 2.4 Applications; 2.5 Suppliers and Commercial Grades; 2.6 Safety; References; Chapter 3. Poly(arylene vinylene)s; 3.1 Monomers; 3.2 Polymerization and Fabrication; 3.3 Properties; 3.4 Special Additives; 3.5 Applications; 3.6 Suppliers and Commercial Grades; 3.7 Safety; References; References; Chapter 4. Poly(phenylene ether)s; 4.1 Monomers; 4.2 Polymerization and Fabrication; 4.3 Properties; 4.4 Special Additives; 4.5 Applications; 4.6 Suppliers and Commercial Grades; 4.7 Safety; 4.8 Environmental Impact and Recycling; References; Chapter 5. Poly(phenylene sulfide); 5.1 Monomers; 5.2 Polymerization and Fabrication; 5.3 Properties; 5.4 Special Additives; 5.5 Applications; 5.6 Suppliers and Commercial Grades; 5.7 Safety; 5.8 Environmental Impact and Recycling; Chapter 6. Poly(aryl ether ketone)s; 6.1 Monomers

6.2 Polymerization and Fabrication; 6.3 Properties; 6.4 Special Additives; 6.5 Applications; 6.6 Suppliers and Commercial Grades; 6.7 Safety; References; Chapter 7. Poly(arylene ether sulfone)s; 7.1 Monomers; 7.2 Polymerization and Fabrication; 7.3 Properties; 7.4 Applications; 7.5 Plumbing Materials; 7.6 Suppliers and Commercial Grades; 7.7 Safety; 7.8 Environmental Impact and Recycling; References; Chapter 8. Poly(arylene ether nitrile)s; 8.1 Monomers; 8.2 Polymerization and Fabrication; 8.3 Properties; 8.4 Applications; 8.5 Suppliers and Commercial Grades; 8.6 Safety; References
Chapter 9. Triazole Polymers; 9.1 Monomers; 9.2 Polymerization and Fabrication; 9.3 Properties; 9.4 Special Additives; 9.5 Applications; 9.6 Suppliers and Commercial Grades; 9.7 Safety; References; Chapter 10. Poly(oxadiazole)s; 10.1 Monomers; 10.2 Polymerization and Fabrication; 10.3 Properties; 10.4 Applications; 10.5 Suppliers and Commercial Grades; 10.6 Safety; References; Chapter 11. Poly(naphthalates); 11.1 Monomers; 11.2 Polymerization and Fabrication; 11.3 Properties; 11.4 Special Additives; 11.5 Applications; 11.6 Suppliers and Commercial Grades; 11.7 Safety
11.8 Environmental Impact and Recycling; References; Chapter 12. Poly(phthalamide)s; 12.1 Monomers; 12.2 Polymerization and Fabrication; 12.3 Properties; 12.4 Special Additives; 12.5 Applications; 12.6 Suppliers and Commercial Grades; 12.7 Safety; 12.8 Environmental Impact and Recycling; References; Chapter 13. Aramids; 13.1 Monomers; 13.2 Polymerization and Fabrication; 13.3 Properties; 13.4 Special Additives; 13.5 Applications; 13.6 Suppliers and Commercial Grades; 13.7 Safety; 13.8 Environmental Impact and Recycling; References; Chapter 14. Poly(amide imide)s; 14.1 Monomers
14.2 Polymerization and Fabrication

Sommario/riassunto

This book presents the state-of-the-art polymerization, fabrication and application methods of high performance industrial polymers, pertaining specifically to recent developments from the chemistry and engineering perspective. All introductory, monomer, polymerization and fabrication techniques are reviewed, and basic information is provided to help demystify the more advanced material. Chapters are arranged according to chemical constitution of the individual classes, starting with main chain carbon-carbon polymers and leading to ether-containing, sulphur-containing, and so on. Special add
