

1. Record Nr.	UNINA9911004835103321
Titolo	Metallocene-catalyzed polymers : materials, properties, processing & markets // [edited by] George M. Benedikt, Brian L. Goodall
Pubbl/distr/stampa	Norwich, NY, : Plastics Design Library, c1998
ISBN	1-282-01123-5 9786612011238 0-08-095042-6 0-8155-1831-5
Descrizione fisica	1 online resource (397 p.)
Collana	Plastics Design Library
Altri autori (Persone)	BenediktGeorge M GoodallBrian L
Disciplina	668.4234 668.9 21 668.9
Soggetti	Metallocenes Metallocene catalysts Polyolefins
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; Metallocene-Catalyzed Polymers: Materials, properties, Processing & Markets; Copyright Page; Tables of Contents; Foreword; Part I: Materials; Chapter 1. Economic Factors for the Production of Metallocene and Perfluorinated Boron Cocatalysts; Chapter 2. Polypropylene Reinvented - Cost of Using Metallocene Catalysts; Chapter 3. New Approaches for Ziegler-Natta Catalysts for Polypropylene; Chapter 4. UNIPOL® Gas Phase Copolymerization with SSC Metallocene Technology Chapter 5. High-Molecular-Weight Atactic Polypropylene from Metallocene Catalysts. Influence of Ligand Structure and Polymerization Conditions on Molecular WeightChapter 6. Homo- and Co-polymers Derived from Multicyclic Olefin Monomers: The Quest for Higher Tg Materials; Chapter 7. The Renaissance in Polyolefin Manufacturing Technology; Chapter 8. Mixed Metallocenes for Designer Polymers; Chapter 9. Advances in the Functionalized Polyolefins Synthesis and

Applications; Chapter 10. SPS Crystalline Polymer: A New Metallocene-catalyzed Styrene Engineering Thermoplastic  
 Chapter 11. Ethylene/-olefin Copolymers with Metallocene Catalysts in High Pressure Process  
 Chapter 12. Semicrystalline Polyolefins - Narrow MWD and Long Chain Branching: Best of Both Worlds; Chapter 13. Structure and Properties of Single Site Constrained Geometry Ethylene-Propylene-Diene, EPDM, Elastomers; Chapter 14. Enhancing Polyethylene Performance with INSITE® Technology and Molecular Design; Part II: Properties; Chapter 15. Morphological Investigation on Very Low Density Ethylene-Octene Metallocene Copolymers Using SAXS  
 Chapter 16. Further Studies on Metallocene ULDPE/PP Blends Impact-Morphology Relationships  
 Chapter 17. Morphology of Low to Very Low Density Ethylene-Octene Metallocene Copolymers; Chapter 18. Morphological Studies of Metallocene Plastomer Modified Polypropylenes; Chapter 19. Comparison of the Crystallization Behavior of Ziegler-Natta and Metallocene Catalyzed Isotactic Polypropylene; Chapter 20. Explaining the Transient Behaviors of Syndiotactic Polypropylene  
 Chapter 21. Equilibrium Melting Temperatures of Ethylene Copolymers: An Appraisal of the Applicability of the Flory and Sanchez-Eby Approaches  
 Chapter 22. Melt Rheology and Processability of Ethylene/Styrene Interpolymers; Chapter 23. Characterizing the Melt Relaxation Behavior of Metallocene Polyethylenes; Chapter 24. Studies on the Thermal Stability and Processability of Syndiotactic Polystyrene  
 Chapter 25. The Performance of Primary and Secondary Antioxidants in Polyolefins Produced with Metallocene Catalysts. Part 1. Preliminary Studies Comparing m-Syndiotactic and Isotactic Polypropylenes

---

#### Sommario/riassunto

It has been estimated that within just ten years, over half of all polyolefins will be made by using metallocene catalysts. This groundbreaking volume from PDL brings together for the first time work from dozens of world-renowned experts on the subject. Fifty chapters of peer-reviewed content offer insights into applications in automotive components, food packaging, insulating films, non-woven fabrics and medical markets, among others.

---