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Synthetic Methods for BDT Monomers and Polymers; 3.2.1 Synthesis of BDT Monomers; 3.2.2 Polymerization Methods of Polymers Incorporating BDT Unit; 3.3 Application of BDT-Based Polymers in OFET and PSC; 3.3.1 Introduction of OFET; 3.3.2 BDT Based Polymers in OFET Application; 3.3.3 Introduction of PSC; 3.3.4 BDT Based Polymers for High performance PSC; 3.4 Outlook; 3.5 References; 4 Polysulfone-Based Ionomers; 4.1 Introduction
4.2 Polysulfone Backbone and Selection of the Ionic Function4.3 Ionomer Synthesis and Characterization; 4.3.1 Chemical Modification of Commercially Available Polysulfones; 4.3.1.1 Acidic Ionic Function Attached Directly at Ortho-to-Ether Position of the Polymer; 4.3.1.2 Ionic Function Attached Directly to Ortho-to-Sulfone Position of the Polymer; 4.3.1.3 Ionic Function Attached to Main-Chain Through Side Chains; 4.3.2 Polymerisation of Ionic Monomers by Step Growth; 4.3.2.1 Ionomers Containing Hexafluoro-Isopropylidene or/and Polar Functions
4.3.2.2 Multi-block Ionomeric Polycondensates Based on Medium to Long Blocks4.3.2.3 Multi-block Copolymers and Random- Ionomeric Copolymers; 4.4 Conclusion; 4.5 References; 5 High-Performance Processable Aromatic Polyamides; 5.1 Introduction; 5.2 Monomers; 5.2.1 Monomers Containing Flexibilizing Spacers; 5.2.2 Monomers with Bulky Side Substituents; 5.2.3 Monomers Containing Cardo Moieties; 5.2.4 Monomers Containing Trifluoromethyl Groups; 5.3 Polymerization; 5.3.1 Low Temperature Solution Polycondensation; 5.3.2 High Temperature Phosphorylation Polyamidation Reaction
5.4 Major Problem with Aromatic Polyamides5.5 Approaches to Processable Polyamides; 5.6 Processable Linear Aromatic Polyamides; 5.6.1 Polyamides Containing Flexibilizing Spacers; 5.6.2 Polyamides with Bulky Side Substituents; 5.6.3 Polyamides with Cardo Moieties; 5.6.4 Polyamides Containing Trifluoromethyl Groups; 5.7 Processable Hyperbranched Aromatic Polyamides; 5.8 Properties; 5.9 Applications; 5.9.1 Aromatic Polyamides for Membrane Application; 5.9.1.1 Aromatic Polyamides for Pervaporation Application; 5.9.1.2 Aromatic Polyamides for Gas Separation Application
5.9.1.3 Aromatic Polyamides as Reverse Osmosis and Nanofiltration Application

Sommario/riassunto

This book describes advances in synthesis, processing, and technology of environmentally friendly polymers generated from renewable resources. With contents based on a wide range of functional monomers and contributions from eminent researchers, this volume demonstrates the design, synthesis, properties and applications of plant oil based polymers, presenting an elaborate review of acid mediated polymerization techniques for the generation of green polymers. Chemical engineers are provided with state-of-the-art information that acts to further progress research in this direction.

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