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METHODS AND PROPERTY DEVELOPMENT; 1.3 THE ROLE OF FLUORINE IN POLYPHOSPHAZENE SYNTHESIS CHEMISTRY; 1.3.1 Facilitation of Chlorine Replacement by Fluorinated Nucleophiles; 1.3.2 Enhancement of the Hydrolytic Stability and Resistance to Other Reagents When Fluorine Is Present in the Organic Side Groups; 1.3.3 Influence by the Structure of the Fluorinated Alkoxide Nucleophile; 1.3.4 Fluoroaryloxy Side Groups
1.3.5 Fluorinated Alkylamino Side Groups
1.3.6 Poly (difluorophosphazene) and Derivatives as Alternatives to Poly (dichlorophosphazene); 1.3.7 Block Copolymers and Micelles; 1.4 PROPERTIES OF FLUORINATED POLYPHOSPHAZENES; 1.4.1 Solubility as a Function of Side Group Structure; 1.4.2 Solid State Properties; 1.4.3 Surface Properties; 1.4.4 Thermal and Thermo-Oxidative Stability; 1.5 EXISTING AND EMERGING APPLICATIONS FOR FLUORINATED POLYPHOSPHAZENES; 1.5.1 Fibers and Nanofibers; 1.5.2 Impact-Absorbing Elastomers; 1.5.3 Surface Coatings; 1.5.4 Radiation Resistant Polymers; 1.5.5 Membranes
1.5.6 Micelles
1.5.7 Uses for Fluorophosphazene Oligomers; REFERENCES; 2 Mn₂(CO)₁₀-Visible Light Photomediated, Controlled Radical Polymerization of Main Chain Fluorinated Monomers and Synthesis of Block Copolymers Thereof; 2.1 INTRODUCTION; 2.2 VDF PHOTOPOLYMERIZATION CATALYST SELECTION; 2.3 EFFECT OF REACTION PARAMETERS AND MECHANISTIC CONSIDERATIONS; 2.3.1 Effect of Temperature and Light; 2.3.2 Solvent Effect; 2.3.3 Polymerization Mechanism and Initiator Evaluation; 2.4 SYNTHESIS OF WELL-DEFINED BLOCK COPOLYMERS FROM PVDF-I AND I-PVDF-I CHAIN ENDS; 2.5 CONCLUSIONS; REFERENCES
3 Interfacial Response of Semifluorinated Multi-Block Copolymers
3.1 Introduction; 3.2 Simulation Model and Methodology; 3.3 Results and Discussion; 3.4 Conclusions; ACKNOWLEDGMENTS; REFERENCES; 4 FLUOROPOLYMER NANOCOMPOSITES; 4.1 Introduction and Overview; 4.2 Preparation of Fluoroalkyl End-Capped Oligomers; 4.3 Preparation and Thermal Stability of Fluoroalkyl End-Capped Oligomers/Silica Nanocomposites; 4.4 Preparation and Properties of Fluoroalkyl End-Capped Oligomers/Titanium Oxide Nanocomposites
4.5 Preparation and Properties of Fluoroalkyl End-Capped Oligomers/Calcium Carbonate Nanocomposites
4.6 Preparation and Properties of Fluoroalkyl End-Capped Oligomeric Nanocomposites-Encapsulated Organic Guest Molecules; REFERENCES; 5 Thermal Degradation and Pyrolysis of Polytetrafluoroethylene; 5.1 Introduction; 5.2 PTFE Pyrolysis; 5.2.1 Overview of Methods; 5.2.2 Mechanism of Pyrolysis; 5.3 Autogenous Reactions of Pyrolysis Products; 5.3.1 Mechanism of TFE Formation; 5.3.2 Mechanism of OFCB Formation; 5.3.3 Mechanism of Hexafluoropropylene Formation
5.3.4 Mechanism of Formation of Perfluorobutenes

Sommario/riassunto

Handbook of Fluoropolymer Science and Technology reviews fluoropolymer platforms of established commercial interest, as well as recently discovered methods for the preparation and processing of new fluorinated materials. Emphasis is placed on emerging technologies in optics, space exploration, fuel cells, microelectronics, gas separation membranes, biomedical instrumentation, and much more. In addition, the book covers the current environmental concerns associated with fluoropolymers, as well as relevant regulations and potential growth opportunities.
