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Oxide Based Blends and Composites and Their Applications; References; 3. Polyether Ether Ketone; 3.1 Introduction and History; 3.2 Polymerization and Fabrication; 3.3 Properties
3.3.1 Solution Properties3.3.2 Thermal Properties; 3.3.2.1 Melting and Crystallization; 3.3.2.2 Crystallization Kinetics; 3.3.2.3 Spherulites; 3.3.2.4 Decomposition; 3.3.3 Mechanical Properties; 3.3.3.1 Tensile Properties; 3.3.3.2 Fracture Toughness; 3.3.3.3 Tensile Creep; 3.3.3.4 Compressive Properties; 3.3.3.5 Taylor Impact; 3.3.3.6 Tribological Behavior; 3.4 Chemical Properties; 3.5 Environmental Resistance; 3.6 Compounding and Special Additives; 3.7 Processing; 3.8 Applications; 3.9 Environmental Impact and Recycling
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4.9 Recent Developments in Poly(ethylene terephthalate) Based Blends and Composites and Their Applications

Sommario/riassunto

The book summarizes many of the recent technical research accomplishments in the area of engineering polymers, such as oxygen containing main chain polymers (Polyether and Polyesters). The book emphasizes the various aspects of preparation, structure, processing, morphology, properties and applications of engineering polymers. Recent advances in the development and characterization of multi component polymer blends and composites (macro, micro and nano) based on engineering polymers are discussed in detail. The content of the book is unique as there are no books which deal with the recent advan
