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| 1. Record Nr. | UNINA990001781690403321 |
| Autore | Semmola, Vincenzo |
| Titolo | Della natura e genesi del moscherino del caprifico / Vincenzo Semmola |
| Pubbl/distr/stampa | [S.l. : s.n., 184.] |
| Descrizione fisica | 8 p. ; 1 tav. , 30 cm |
| Disciplina | 634.37 |
| Locazione | FAGBC |
| Collocazione | 60 MISC. A 7/9 |
| Lingua di pubblicazione | Italiano |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| 2. Record Nr. | UNINA9910822808403321 |
| Autore | Thomas Sabu |
| Titolo | Handbook of engineering and specialty thermoplastics . Vol. 3 Polyethers and polyesters / / Sabu Thomas and Visakh P.M |
| Pubbl/distr/stampa | Hoboken N.J., : Wiley, 2011 |
| ISBN | 9786613177001 9781283177009 1283177005 9781118104729 1118104722 9781118104736 1118104730 |
| Descrizione fisica | 1 online resource (564 p.) |
| Collana | Wiley-Scrivener ; ; v.64 |
| Altri autori (Persone) | P. MVisakh |
| Disciplina | 668.423 668.4234 |
| Soggetti | Polyethers Polyesters |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |

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| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | <p>Handbook of Engineering and Specialty Thermoplastics: Polyethers and Polyesters; Contents; List of Contributors; 1. Engineering and Specialty Thermoplastics: Polyethers and Polyesters; 1.1 Introduction; 1.2 Polyesters Synthesis; 1.3 Polyethers; 1.3.1 Aromatic Polyethers; 1.4 Individual Polyethers and Polyesters and Their Application; 1.4.1 Poly (Phenylene Oxide); 1.4.2 Polyether Ether Ketone; 1.4.3 Poly(Ethylene Terephthalate); 1.4.4 Poly(Butylene Terephthalate); 1.4.5 Polyesters Containing Cyclohexanedimethanol Units; 1.4.6. Liquid Crystal Polyesters; 1.4.7 Polylactide</p> <p>1.4.8 Thermoplastic Copolyester Elastomers (TPEEs)1.4.9 Polycarbonate (PC); 1.5 New Challenges and Opportunities; References; 2. Poly (phenylene oxide); 2.1 Introduction and History; 2.2 Monomer; 2.3 Polymerization and Mechanism; 2.4 Properties; 2.5 Compounding and Special Additives; 2.6 Processing; 2.7 Applications; 2.8 Environmental Impact and Recycling; 2.9 Recent Developments in Poly Phenylene 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</p> <p>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</p> <p>3.10 Recent Developments in PEEK Based Blends and Composites and Their ApplicationsReferences; 4. Poly(ethylene terephthalate); 4.1 Introduction and History; 4.2 Polymerization and Fabrication; 4.2.1 First Step: Prepolymerization; 4.2.2 Second Step: Polycondensation; 4.2.3 Solid-State Polymerization; 4.3 Solid-State Properties; 4.3.1 Mechanical Properties; 4.3.2 Thermal Properties; 4.3.3 Gas Barrier Properties; 4.3.4 Other Physical Properties; 4.4 Chemical Stability; 4.4.1 Solubility and Chemical Resistance of PET; 4.4.2 Hydrolytic Degradation of PET; 4.4.2 Thermal Degradation of PET</p> <p>4.4.3 Thermo-oxidative Degradation of PET4.5 Compounding and Special Additives; 4.6 Processing; 4.6.1 Extrusion; 4.6.2 Injection Molding; 4.6.3 Blow Molding; 4.7 Applications; 4.7.1 PET Fibers; 4.7.2 PET Films; 4.7.3 PET Bottles; 4.8 Environmental Impact and Recycling; 4.8.1 Generality about PET Recycling; 4.8.2 Chemical Recycling of PET; 4.8.2.1 Methanolysis; 4.8.2.2 Glycolysis; 4.8.2.3 Hydrolysis; 4.8.2.4 Others methods; 4.8.3 Mechanical Recycling; 4.8.4 Recent Developments in PET Recycling</p> <p>4.9 Recent Developments in Poly(ethylene terephthalate) Based Blends and Composites and Their Applications</p> |
| Sommario/riassunto | <p>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 advances</p> |

