1. Record Nr. UNINA9910139642603321 Autore Thomas Sabu Titolo Handbook of engineering and specialty thermoplastics. Vol. 3 Polyethers and polyesters [[electronic resource] /] / Sabu Thomas and Visakh P.M Hoboken N.J.,: Wiley, 2011 Pubbl/distr/stampa **ISBN** 1-283-17700-5 9786613177001 1-118-10472-2 1-118-10473-0 Descrizione fisica 1 online resource (564 p.) Collana Wiley-Scrivener;; v.64 Altri autori (Persone) P. MVisakh Disciplina 668.423 668.4234 Soggetti Polvethers **Polyesters** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto 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 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

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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 (maco, 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