Record Nr. UNINA9910146249903321 Modern polyesters [[electronic resource]]: chemistry and technology of **Titolo** polyesters and copolyesters / / edited by John Scheirs and Timothy E. Long Hoboken, NJ,: John Wiley & Sons, c2003 Pubbl/distr/stampa **ISBN** 1-280-23893-3 9786610238934 0-470-09067-7 0-470-09068-5 Descrizione fisica 1 online resource (786 p.) Collana Wiley series in polymer science Altri autori (Persone) ScheirsJohn LongTimothy E. <1969-> Disciplina 668,4225 Soggetti **Polyesters** Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Modern Polyesters: Chemistry and Technology of Polyesters and Copolyesters; Contents; Contributors; Series Preface; Preface; About the Editors; I HISTORICAL OVERVIEW; 1 The Historical Development of Polyesters; 1 Introduction; 2 Alkyd and Related Resins; 3 Fibres from Partially Aromatic Polyesters: 3.1 Early Work Leading to Poly(ethylene Terephthalate): 3.2 Spread of Polyester Fibre Production: 3.3 Intermediates; 3.4 Continuous Polymerisation; 3.5 Solid-phase Polymerisation; 3.6 End-use Development; 3.7 High-speed Spinning; 3.8 Ultra-fine Fibres: 4 Other Uses for Semi-aromatic Polvesters 4.1 Films4.2 Moulding Products; 4.3 Bottles; 5 Liquid-crystalline Polyesters; 6 Polyesters as Components of Elastomers; 7 Surface-active Agents: 8 Absorbable Fibres: 9 Polycarbonates: 10 Natural Polyesters:

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Sommario/riassunto

Provides an overview of the family of polyester polymers which comprise an important group of plastics that span the range of commodity polymers to engineering resins. It describes the preparation, properties and applications of polyesters. Readers will also find details on polyester-based elastomers, biodegradable aliphatic polyester, liquid crystal polyesters and unsaturated polyesters for glass-reinforced composites. Presents an overview of the most recent developments. Explores synthesis, catalysts, processes, properties and applications. Looks at emerging polyester materials