1. Record Nr. UNINA9910825763803321 Autore Murphy John <1934 May 23-> Titolo Additives for plastics handbooks / / John Murphy Kidlington, Oxford, UK;; New York, NY, USA,: Elsevier Science Ltd., Pubbl/distr/stampa c2001 1-281-03545-9 **ISBN** 9786611035457 0-08-049861-2 Edizione [2nd ed.] Descrizione fisica 1 online resource (507 p.) Disciplina 668.4/11 Plastics - Additives Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Front Cover; Additives for Plastics Handbook; Copyright Page; Nota di contenuto Contents; List of Tables; List of Figures; Preface and Publishers' note; Chapter 1. An Overview of Additives; Chapter 2. Types of Additive and the Main Technical Trends; 2.1 Current Lines of Development; 2.2 Special Additives; 2.3 Multi-functional Formulations; 2.4 Masterbatches; 2.5 Dendritic Polymers; Chapter 3. The World Market; 3.1 World Consumption of Additives; 3.2 The Market for Masterbatch; 3.3 Overall Commercial Trends: 3.4 Growth of Specialist Compounders: 3.5 Regional Factors Chapter 4. Modifying Specific Properties: Mechanical Properties -Fillers 4.1 Effect of Fillers: 4.2 Factors for Compounding: 4.3 Types of Fillers; 4.4 Surface Modification; 4.5 Nano-technology; 4.6 Commercial Trends; Chapter 5. Modifying Specific Properties: Mechanical Properties - Reinforcements; 5.1 Fibres: The Basic Properties; 5.2 Types of Reinforcing Fibre; 5.3 Other Fibres; 5.4 Natural Fibres; 5.5 Forms of Reinforcement; 5.6 Long-fibre Reinforcement; 5.7 New Developments; 5.8 Commercial Trends Chapter 6. Modifying Specific Properties: Appearance - Colorants, Pigments, Dyes, Special Effects6.1 Main Types of Pigment and Colorant; 6.2 Addition of Colorants; 6.3 Replacement of Cadmium; 6.4 Pigments for Special Effects; 6.5 Laser Marking; 6.6 Pigment Dispersants; 6.7

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Sommario/riassunto

Both technically and economically, additives form a large and increasingly significant part of the polymer industry, both plastics and elastomers. Since the first edition of this book was published, there have been wide-ranging developments, covering chemistry and formulation of new and more efficient additive systems and the safer use of additives, both by processors in the factory and, in the wider field, as they affect the general public. This new edition follows the successful formula of its predecessor, it provides a comprehensive view of all types of additives, concentrating m