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| Autore | Valcanover, Francesco |
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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 - Fillers4.1 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 Multi-functional Systems; 6.8 Pigments for Engineering Plastics; 6.9 The Effect of Pigments on Dimensions; 6.10 Colorants for Food and Medicals; 6.11 Recent Developments; 6.12 Market Trends; Chapter 7. Modifying Specific Properties: Appearance - Black and White Pigmentation; 7.1 Types of White Pigment; 7.2 Black Pigments
7.3 Commercial Trends: Titanium Dioxide7.4 Commercial Trends: Carbon Black; Chapter 8. Modifying Specific Properties: Resistance to Heat - Heat Stabilizers; 8.1 How They Work; 8.2 Antioxidants; 8.3 Blends; 8.4 Replacement of Heavy Metals; 8.5 Effect of Silica on the Activity of Stabilizers; 8.6 Benzoxazolone Derivatives for PVC; 8.7 New Chemistry for Stabilizers; 8.8 Recent Developments; 8.9 Other Stabilizers; 8.10 Commercial Trends; Chapter 9. Modifying Specific Properties: Resistance to Light - UV Stabilizers; 9.1 How They Work; 9.2 UV Screening Pigments; 9.3 Absorbers
9.4 Energy Transfer Agents/Quenchers9.5 Scavengers: Hindered Amine Light Stabilizers; 9.6 Synergists with HALS; 9.7 Polymeric Stabilizers; 9.8 Blends; 9.9 Replacement of Heavy Metals; 9.10 Selection of Antioxidants for Use with UV Stabilizers; 9.11 Concentrates, Masterbatches; 9.12 New Chemistry; 9.13 Recent Developments; Chapter 10. Modifiying Specific Properties: Flammability - Flame Retardants; 10.1 How They Work; 10.2 Summary of FR additives; 10.3 Halogenated Compounds; 10.4 Other Flame Retardants; 10.5 Phosphorus; 10.6 Intumescent Flame Retardants; 10.7 Halogen-free Systems
10.8 Combinations of Flame Retardants

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