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Autore	Fink Johannes Karl
Titolo	A concise introduction to additives for thermoplastic polymers / / Johannes Karl Fink
Pubbl/distr/stampa	Hoboken, NJ, : Wiley Salem, MA, : Scrivener Pub., c2010
ISBN	9786612684012 9781282684010 1282684019 9780470624241 0470624248 9781613441633 1613441630 9780470624234 047062423X
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Note generali	Description based upon print version of record.
Nota di contenuto	A Concise Introduction to Additives for Thermoplastic Polymers; Contents; Preface; 1 Introduction; 1.1 Classification; References; 2 Plasticizers; 2.1 Principle of Action; 2.2 Principle of Selection; 2.3 Characterization; 2.4 Risks and Drawbacks; 2.4.1 Leaching; 2.4.2 Inherent Toxicity; 2.5 Classes of Plasticizers; 2.5.1 Phthalate Plasticizers; 2.5.2 Cyclohexanoic Diesters; 2.5.3 Phophate Plasticizers; 2.5.4 Aliphatic Esters; 2.5.5 Polymeric Plasticizers; 2.5.6 Ionic Liquids; 2.6 Specific Examples of Application; 2.6.1 Heat Shrinkable Films; 2.6.2 Adhesive Compositions 2.6.3 Interlayer Films for Safety Glasses2.6.4 Electrolyte Membranes; 2.6.5 Porous Electrodes; 2.6.6 Biodegradable Polymers; 2.6.7 Plasticizers for Energetic Polymers; References; 3 Fillers; 3.1 Surface Modification; 3.1.1 Siloxanes; 3.1.2 Dispersion and Coupling Additives; 3.2 Special Applications; 3.2.1 Flame Retardant Fillers; 3.2.2 Conductive Fillers; 3.2.3 Solder Precoated Fillers; 3.2.4 Nano Clays; 3.2.5 Mixed Matrix Membranes; References; 4 Colorants; 4.1 Physics Behind a Color; 4.1.1 Human Eye; 4.1.2 Tristimulus Values; 4.1.3 Color Spaces; 4.2 Color Index; 4.3 Test Standards 4.4 Pigments4.5 Organic Colorants; References; 5 Optical Brighterners; 5.1 Basic Principles; 5.2 Measurement; 5.3 Inorganic Brighteners; 5.4 Organic Optical Brighteners; 5.4.1 Reactive Optical Brighteners; 5.4.2 Melt Extrusion; 5.4.3 Photographic Supports; References; 6 Antimicrobial Additives; 6.1 Modes of Action; 6.1.1 Types of Irritations; 6.2 Plasticizers; 6.3 Special Formulations; 6.3.1 Contact Lenses; 6.3.2 Food Packaging; 6.3.3 Polymers with Inherent Antimicrobial Properties; References; 7 Flame Retardants; 7.1 Mechanisms of Flame Retardants; 7.1.1 Flame Cooling of Halogens 7.2 Smoke Suppressants7.3 Admixed Additives; 7.4 Bonded Additives; 7.4.1 Examples of Polymers; References; 8 Lubricants; 8.1 Principle of Action; 8.2 Methods of Incorporation; 8.2.1 Conventional Method; 8.2.2 Separate Delivery of the Lubricant; 8.3 Types of Lubricants; 8.3.1 Alcohols; 8.3.2 Fatty Acids, Esters and Amides; 8.3.3 Waxes; 8.3.4 Polymeric Lubricants; 8.4 Special Applications; 8.4.1 PVC; 8.4.2 Chlorinated PVC; 8.4.3 Electically Conductive Polymers; References; 9 Antistatic Additives; 9.1 Types of Additives; 9.2 Areas of Application; 9.3 Additives in Detail 9.3.1 Conventional Additives9.3.2 Polymeric Additives; 9.3.3 External Antistatic Additives; 9.3.4 Intrinsically Antistatic Compositions; 9.3.5 Conductive Fillers; References; 10 Slip Agents; 10.1 Basic Principles of Action; 10.2 Compounds; 10.3 Special Formulations; 10.3.1 Poly (ethylene terephthalate); 10.3.2 Formulations for Poly(ethylene); References; 11 Surface Improvers; 11.1 Additives; 11.1.1 Fluorocarbon Compounds; 11.1.2 Acrylics; 11.1.3 Modified Pigments; 11.1.4 Organic Salts; References; 12 Nucleating Agents; 12.1 Crystalline Polymers; 12.1.1 Crystal Structures 12.1.2 Modification of Properties by Crystallinity
Sommario/riassunto	Describes twenty-one of the most important and commonly used additives A Concise Introduction to Additives for Thermoplastic Polymers focuses on additives for thermoplastic polymers and describes 21 of the most important and commonly used additives from Plasticizers and Fillers to Optical Brighteners and Anti-Microbial

additives. It also includes chapters on safety and hazards, and prediction of service time models. While there are many exhaustive and complex books dealing with additives for polymers, the size of them deter students and many industry engineers from using them