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Nota di contenuto

Radiation Processing of Polymer Materials and its Industrial Applications; Contents; Preface; Abbreviations; 1: Basic Concepts of Radiation Processing; 1.1: Radiation Sources; 1.1.1: γ -Ray; 1.1.2: Electron Beam; 1.1.3: X-Ray; 1.2: Radiation Chemistry of Polymers; 1.2.1: Interactions of Ionizing Radiation with Polymers and Reactions Induced; 1.2.2: Different Responses to Radiation from Different Polymers; 1.3: Advantages and Disadvantages of Radiation Processing; 1.4: Engineering of Radiation Processing; 1.4.1: Materials Handling; 1.4.2: Radiation Dose and Dose Distribution; 1.4.3: Throughput; 1.4.4: Temperature Rise; 1.4.5: Atmosphere; 1.4.6: Dose Rate; 1.4.7: Radiation Processing Cost; References; 2: Fundamentals of Radiation Crosslinking; 2.1: Radiation Chemistry of Crosslinking; 2.1.1: Types of Crosslinking; 2.1.2: Evidence of Crosslinking; 2.2: Crosslinking of Polymer; 2.2.1: Crosslinking of Semicrystalline Polymer; 2.2.1.1: Peroxide Crosslinking; 2.2.1.2: Silane Crosslinking; 2.2.1.3: Technical Comparison of Crosslinking Methods; 2.2.2: Crosslinking of Rubber; 2.2.2.1: Radiation Crosslinking Versus Sulfur Crosslinking; 2.2.2.2: Radiation Crosslinking Versus Peroxide Crosslinking; 2.3: Estimation of G Value of Crosslinking; 2.3.1: Charlesby-Pinner Method; 2.3.2: Modification of Charlesby-Pinner Equation; 2.3.3: Swelling and Elasticity Methods; 2.4: Factors Affecting Radiation Crosslinking; 2.4.1: Physical Nature of Polymer; 2.4.1.1: Glass-Transition Temperature; 2.4.1.2: Crystallinity; 2.4.2: Chemical Composition of Polymer; 2.4.2.1: Bond Energy; 2.4.2.2: Unsaturation; 2.4.2.3: Methyl Group; 2.4.2.4: Halogen Atom; 2.4.2.5: Phenyl Group; 2.4.2.6: Ester and Ether Bond; 2.4.2.7: Copolymer; 2.4.2.8: Ethylene Copolymer; 2.4.2.9: Fluoropolymer; 2.4.2.10: Silicone Rubber; 2.4.2.11: Branching; 2.4.3: Molecular Weight and Molecular Weight Distribution; 2.4.4: Configuration; 2.4.4.1: Structural Isomerism; 2.4.4.2: Stereoisomerism; References; 3: Enhancement of Radiation Crosslinking; 3.1: Concept of Enhancement of Radiation Crosslinking; 3.2: Increasing Number of Polymer Radicals; 3.2.1: Sensitizer; 3.2.2: Postirradiation Heat Treatment; 3.3: Increasing Recombination of Polymer Radicals; 3.3.1: Compression; 3.3.2: High-Temperature Irradiation; 3.3.3: Plasticizer; 3.3.4: Polyfunctional Monomer; 3.4: Filler Effect; 3.4.1: Modification of Superstructure; 3.4.2: Direct Bonding to Amorphous Polymers; 3.5: Hybrid Crosslinking; 3.6: Selection of Antioxidant; 3.7: Advanced Radiation Crosslinking; References; 4: Properties of Radiation Crosslinked Polymers; 4.1: Radiation Crosslinked Rubbers; 4.1.1: Radiation Crosslinking of Rubbers; 4.1.2: Properties of Radiation Crosslinked Rubbers with PFM; 4.1.3: Silicone Rubber; 4.1.4: Fluoroelastomer; 4.2: Radiation Crosslinked Plastics; 4.2.1: Physical Properties of Crosslinked Polymers at Room Temperature; 4.2.1.1: Mechanical Properties

Sommario/riassunto

Up-to-date, comprehensive coverage on radiation-processed polymer materials and their applications. Offering a unique perspective of the industrial and commercial applications of the radiation processing of polymers, this insightful reference examines the fundamental scientific principles and cutting-edge developments advancing this diverse field. Through a variety of case studies, detailed examples, and economic feasibility analysis, *Radiation Processing of Polymer Materials and Its Industrial Applications* systematically explains the commercially viable ways to process and use
