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Rheo-Physics of Multiphase Polymer Systems: Characterization by Rheo-Optical Techniques

Kai Sondergaard, J. Lyngaae-Jorgensen

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FROM THE PREFACE
Almost all polymeric systems are subjected to a flow field at least once along the route between preparation and application. . . . There is also an increased interest in predictive models on phase behavior and suitable techniques for characterizing the structure of these systems when subjected to flow. Multiphase polymeric systems are particularly susceptible to flow, which may cause orientation of species, morphological changes, and phase transitions. All these events may, in turn, affect the end product properties, such as permeability, electrical conductivity, [and] mechanical properties.
In processing, escalating needs have evolved for optimization and development of novel and more uniform product properties and increased productivity. In order to arrive at an understanding of processing polymeric systems under elastic flow conditions, it is convenient to analyze the basic physical mechanisms under conditions that enable development of predictive models in conjunction with controlled experimentation. . . . In recent years, the science of rheo-physics has evolved and now involves both advanced theories and experimental techniques. Rheo-physics means the rheological, morphological, and thermodynamic behavior of structured polymer systems during flow. . . . In this monograph, the rheo-optical techniques are . . . emphasized.
The book gives an introduction to rheo-physics, including fundamentals of theories, and a representative selection of applications of rheo-optical techniques for analyzing multiphase systems. The chapters contain both practical advice for the new experimenter . . . as well as review material for the experienced scientist.

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