



Miscible Polymer Blends: Background and Guide for Calculations and Design

Michael M. Coleman, Paul C. Painter

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Title: Miscible Polymer Blends: Background and Guide for Calculations and Design

Description:

- A valuable tool for understanding the mixing of polymer blends
- Facilitates finding combinations of polymers that work - and don't
- Ready to apply in your lab or research facility

Written and developed by two of the world's leading authorities, the software + book Miscible Polymer Blends offers polymer chemists and engineers a method for very rapidly determining which polymers and co-polymers mix and do not mix. The CD-ROM calculator is designed to aid in determining promising polymer blends for many different applications. A self-guided tutorial on the CD-ROM, as well as an accompanying booklet, presents the theoretical background.

Based on twenty years of research, Miscible Polymer Blends is an inexpensive, easy-to-use instrument for investigating and refining polymer combinations. The package offers succinct and precise explanations, which will be of value to those requiring a clear introduction to the fascinating field of polymer blends.

CONTENTS (with selected subtopics)

1. Tutorial

- An In-Depth Guided Tour of How to Predict Miscible Polymer Mixtures

2. Additional Material on Relevant Topics

- Solubility Parameters
- Group Contributions
- How Group Contributions are Determined
- Specific Interactions
- Critical Values of Solubility Parameter Differences
- The Dilution Algorithm
- Self-Association
- Inter-Association
- Infrared Studies of Blends
- Different Equilibrium Schemes
- Infrared Determination of Equilibrium Constants
- Temperature Dependence of Equilibrium Constants
- Polymer Self-Association Equilibrium Constants
- Intramolecular Screening
- Functional Group Accessibility
- Hydrogen Bonding Free Energy Equation
- Phase Behavior

3. Calculators

- Solubility Parameter Calculator for Homopolymers
- Solubility Parameter Calculator for Random Copolymers

- Miscibility Checker for Two Homopolymers
- Miscibility Checker for a Homopolymer with a Copolymer
- Miscibility Checker for Two Copolymers
- Miscibility Windows and Maps
- Phase Calculator for Hydrogen Bonded Polymer Blends

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