



Polymer Blends and Composites

By Manson, John A.

Book Condition: New. Publisher/Verlag: Springer, Berlin | The need for writing a monograph on polymer blends and composites became apparent during presentation of material on this subject to our advanced polymers class. Although the flood of important research in this area in the past decade has resulted in many symposia, edited collections of papers, reviews, contributions to scientific journals, and patents, apparently no organized presentation in book form has been forthcoming. In a closely connected way, another strong impetus for writing this monograph arose out of our research programs in the Materials Research Center at Lehigh University. As part of this effort, we had naturally compiled hundreds of references and become acquainted with many leaders in the field of blend and composite research. Perhaps the most important concept stressed over and over again is that engineering materials are useful because of their complexity, not in spite of it. Blends and composites are toughened because many modes of resistance to failure are available. Although such multimechanism processes are difficult to describe with a unified theory, we have presented available developments in juxtaposition with the experimental portions. The arguments somewhat resemble the classical discussion of resonance in organic chemistry, where...



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