1. Record Nr. UNINA9910461331003321

Titolo	Functional polymer blends : synthesis, properties, and performances / / edited by Vikas Mittal
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , 2012
ISBN	0-429-11022-7 1-280-12237-4 9786613526236 1-4398-5670-2
Descrizione fisica	1 online resource (345 p.)
Altri autori (Persone)	MittalVikas
Disciplina	668.9/2
Soggetti	Polymeric composites Polymer engineering Polymerization Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Preface; About the Editor; Contributors; Chapter 1: Functional Polymer Blends: Synthesis and Microstructures; Chapter 2: Miscibility Enhancement of Polymer Blends through Multiple Hydrogen Bonding Interactions; Chapter 3: Component Dynamics in Miscible Polymer Blends; Chapter 4: Shape Memory Polymer Blends; Chapter 5: Synthesis and Properties of Ethylene Methacrylate (EMA) Copolymer Toughened Polymethyl Methacrylate (PMMA) Blends; Chapter 6: Molecular Dynamics Simulation Studies of Binary Blend Miscibility Chapter 7: Conformation and Topology of Cyclic-Linear Polymer BlendsChapter 8: Strain Hardening in Polymer Blends with Fibril Morphology; Chapter 10: Directed Assembly of Polymer Blends Using Nanopatterned Chemical Surfaces; Back Cover
Sommario/riassunto	With their broad range of properties, polymer blends are widely used in adhesion, colloidal stability, the design of composite and biocompatible materials, and other areas. As the science and technology of polymer blends advances, an increasing number of polymer blend systems and applications continue to be developed. Functional Polymer Blends:

Synthesis, Properties, and Performance presents the latest synthesis and characterization methodologies for generating polymer blend systems. This one-stop resource brings together both experimental and theoretical material, much of