

1. Record Nr.	UNINA9910298647203321
Titolo	Polymer Blends Handbook // edited by Leszek A. Utracki, Charles A. Wilkie
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2014
ISBN	94-007-6064-7
Edizione	[2nd ed. 2014.]
Descrizione fisica	1 online resource (XXIII, 2378 p. 491 illus., 131 illus. in color. eReference.) : online resource
Disciplina	547.13
Soggetti	Polymers Soft condensed matter Materials - Analysis Chemistry, Physical and theoretical Chemistry, Technical Soft and Granular Matter Characterization and Analytical Technique Physical Chemistry Industrial Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Fundamentals: Polymer Blends: Introduction -- Thermodynamics of Polymer Blends -- Crystallization, Micro- and Nano-structure, and Melting Behavior of Polymer Blends -- Interphase and Compatibilization by Addition of a Compatibilizer -- Reactive Compatibilization -- Interpenetrating Polymer Networks -- Rheology of Polymer Alloys and Blends -- Morphology of Polymer Blends -- Compounding Polymer Blends -- Properties: Properties and Performance of Polymer Blends -- Mechanical Properties of Polymer Blends -- Broadband Dielectric Spectroscopy on Polymer Blends -- Physical Aging of Polymer Blends -- Degradation, Stabilization, and Flammability of Polymer Blends -- APPLICATIONS: Applications of Polymer Blends -- High Performance Polymer Alloys and Blends for Special Applications -- Polymer Blends Containing "Nanoparticles" -- Polyethylenes and their Blends -- Commercial Polymer Blends --

Recycling Polymer Blends -- Miscible Polymer Blends -- Appendices:
Appendix I. International Abbreviations for Polymers and Polymer
Processing -- Appendix II. Examples of Commercial Polymer Blends --
Appendix III. Dictionary of Terms Used in Polymer Science and
Technology -- Appendix IV. Trade Names of Polymers and their Blends
-- Appendix V. Commercialization Dates of Selected Polymers --
Appendix VI. Notation and Symbols.

Sommario/riassunto

The Polymer Blends Handbook is a fundamental reference work on polymer blends, covering all aspects: science, engineering, technology and application. It will appeal to anyone working in the field of blends, researchers as well as engineers. The Handbook is designed to be the source of information on all aspects of polymer blends. To this end the Editors have put together an international group of highly respected contributors, each an expert in his chosen subjects.
