

WILEY



Encyclopedia of Polymer Blends

5-Volume Set

Edited by:

Avraam I. Isayev The University of Akron, Akron, USA

The Encyclopedia of Polymer Blends comprises of five volumes and is a source of all knowledge related to polymer blends.

Providing a complete and timely overview of the topic, each volume presents up to date research and development highlighting basic principles and applications.

With each volume consistent in style and structure, the *Encyclopedia of Polymer Blends* imparts knowledge of fundamental principles and their applications to academicians, scientists and researchers, and informs engineers, industrialists and entrepreneurs about the state of the art technology and its applications.

Also included are examples of case studies, laboratory and pilot plant experiments, with due reference to published and patented literature. Encyclopedia of Polymer Blends ware tradementer

5-volume set price £550.00 / €595.00

ISBN:978-3-527-31928-2 February 2013 • Hardback

Volume 1 describes the fundamentals including the basic principles of polymer blending, thermodynamics, miscible immiscible and compatible blends, kinetics, and composition and temperature dependence of phase separation.

Volume 2 explains the principles, equipment and machinery for polymer blend processing.

Volume 3 describes the structure of the blended material that governs its properties.

Volume 4 discusses the properties of the blended material given by a certain structure.

Volume 5 treats the materials developed by blending polymers, and their industrial, automobile aerospace, and other high technology applications.

Also available in individual volumes:

Volume 1 – Fundamentals August 2010 | ISBN: 978-3-527-31929-9 | Hardback | Approx. 334 Pages

Volume 2 – Processing May 2011 | ISBN: 978-3-527-31930-5 | Hardback | Approx. 450 Pages

Volume 3 - Structure February 2012 | ISBN: 978-3-527-31931-2 | Hardback | Approx. 450 Pages

Volume 4 - Properties August 2012 | ISBN: 978-3-527-31932-9 | Hardback | Approx. 450 Pages

Volume 5 - Materials & Applications February 2013 | ISBN: 978-3-527-31933-6 | Hardback | Approx. 450 Pages

Series price per volume £110.00 / €119.00 Individual volume price: £130.00 / €139.00

About the editor:

Avraam I. Isayev is a Distinguished Professor of Polymer Engineering and Director of the Molding Technology Center at the Institute of Polymer Engineering of the University of Akron. He received M.Sc. degrees from the Azerbaijan Institute of Oil and Chemistry in Chemical Engineering and the Moscow Institute of Electronic Machine Building in Applied Mathematics. Professor Isayev then earned his Ph.D. in Polymer Engineering and Science from the Institute of Petrochemical Synthesis of the USSR Academy of Sciences, Moscow. He has edited three books, published over 200 papers, many book chapters and encyclopedia articles.

