


High Performance Polymers and Engineering Plastics


From Wiley-Scrivener



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This book describes advances in synthesis, processing, and technology of environmentally friendly polymers generated from renewable resources. With contents based on a wide range of functional monomers and contributions from eminent researchers, this volume demonstrates the design, synthesis, properties and applications of plant oil based polymers, presenting an elaborate review of acid mediated polymerization techniques for the generation of green polymers. Chemical engineers are provided with state-of-the-art information that acts to further progress research in this direction.

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Editorial Review

From the Back Cover

Provides a one-stop source for up-to-date synthesis details, properties and applications of high performance engineering plastics.

Over the last decade, several new families of high performance polymers and engineering plastics have been reported which find enhanced application potential in the more challenging industrial areas like aerospace, defense, energy, electronics, automotives, and special surface coatings. Such polymers provide an improved set of properties like higher service-temperatures at extreme conditions and good mechanical strength, dimensional stability, thermal degradation resistance, environmental stability, gas barrier, solvent resistance, and electrical properties.

High Performance Polymers and Engineering Plastics presents the various categories of high performance polymers including poly(phenylene ether), polysulfones, poly(aryl ether ketone), poly(oxadiazole), poly(imide), poly(ether amide), poly(ether amide imide), poly(naphthalene), liquid crystalline polymers and poly(amide imide). It provides up-to-date synthesis details, properties, characterization, and applications for such systems in order to give readers and users better information to select the required material.

The volume provides the following features:

- Inclusion of a wide range of high performance and engineering plastics
- Details on the synthesis and properties of each of the polymer
- Orientation towards the partial industrial applications
- Chapters from some of the world's most well-known and respected experts in the field

About the Author

Vikas Mittal is an Assistant Professor at the Chemical Engineering Department of The Petroleum Institute, Abu Dhabi. He obtained his PhD in 2006 in Polymer and Materials Engineering from the Swiss Federal Institute of Technology in Zurich, Switzerland. Later, he worked as a Materials Scientist in the Active and Intelligent Coatings section of Sun Chemical in London, UK and as Polymer Engineer at BASF Polymer Research in Ludwigshafen, Germany. His research interests include polymer nanocomposites, novel filler surface modifications, thermal stability enhancements, and polymer latexes with functionalized surfaces.

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