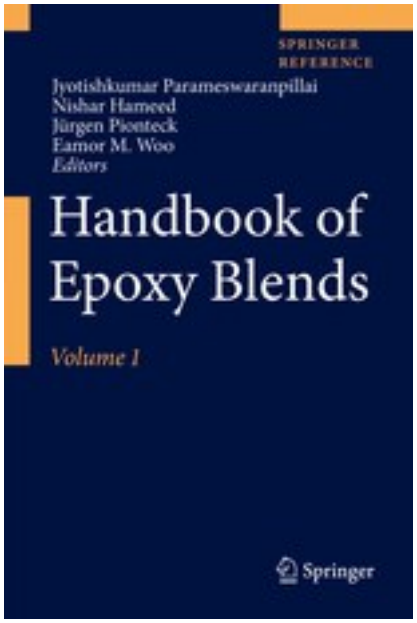
Handbook of Epoxy Resins



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This reference work compiles and summarizes the available information on epoxy blends. It covers all essential areas – the synthesis, processing, characterization and applications of epoxy blends – in a comprehensive manner. The handbook is highly application-oriented and thus serves as a valuable, authoritative reference guide for researchers, engineers, and technologists working on epoxy blends, but also for graduate and postgraduate students, polymer chemists, and faculties at universities and colleges.The handbook is divided into three parts and organized by the types of blends and components: Part I covers epoxy rubber blends, Part II focuses on epoxy thermoplastic blends, and Part III examines epoxy block-copolymer blends. Each part starts with an introduction, and the individual chapters provide readers with comprehensive information on the synthesis and processing, analysis and characterization, properties and applications of the different epoxy blends. All parts

conclude with a critical evaluation of the applications, weighing their advantages and drawbacks. Leading international experts from corporate and academic research institutions and universities discuss the correlations of different epoxy blend properties with their macro-, micro- and nanostructures. This handbook thus offers a rich resource for newcomers to the field, and a major reference work for experienced researchers, the first of its kind available on the market. As epoxies find extremely broad applications, e.g. in oil & gas, in the chemical industry, building and construction industry, automotive, aviation and aerospace, boat building and marine applications, in adhesives and coatings, and many more, this handbook addresses researchers and practitioners from all these fields.

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Dr Nishar Hameed is an expert on nanostructured polymer materials. He has put together a very solid body of research in a very short time with over 40 journal articles published. He has already won several awards as in his young research career including the recent Victorian Fellowship in Australia. His research interests include: nanostructured thermosets and nanocomposites, nanostructured polymer blends and complexes, smart thermoset materials, and block-copolymer nanomaterials for biomedical applications. <

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Dr. Jürgen Pionteck is a senior scientific staff at the Leibniz Institute of Polymer Research Dresden, Germany, in the Department Functional Nanocomposites and Blends. His fields of work comprise the synthesis and chemical modification of reactive polymers, reactive compatibilization of polymer blends, modification of polymer interphases, electrically conductive blends and (nano) composites, interpenetrating polymer networks (ipn), and thermodynamics of polymers and blends.

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