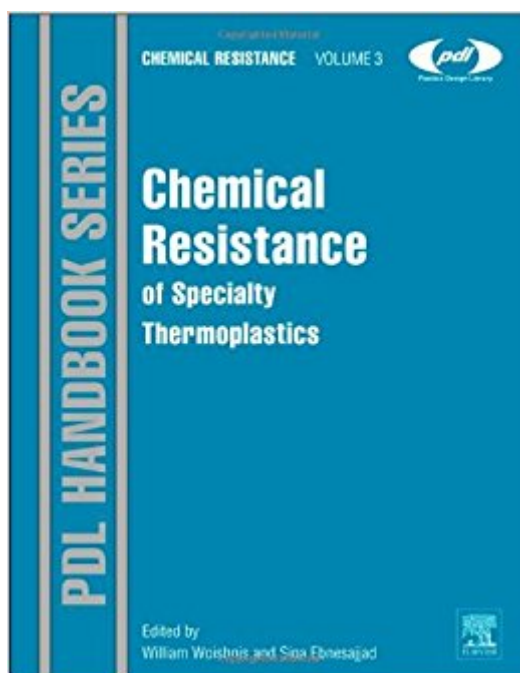


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Chemical Resistance Of Specialty Thermoplastics, Volume 3 (Plastics Design Library)



Synopsis

While the two-volume work *Chemical Resistance of Thermoplastics* covers chemical resistance of high-volume commercial (commodity) thermoplastics, this volume focuses on high performance 'engineering' or 'specialty' thermoplastics. These thermoplastics are usually consumed in smaller volumes, but have desirable characteristics for demanding and high-value applications. This book provides extensive data on chemical resistance tests, and material chemical resistance properties for important specialty thermoplastics including polyarylenes, polymimides and fluoropolymers, polymer alloys and specialty polyethylenes. The chemical resistance data provided enables the reader to make a better material selection decision, avoiding the major economic and business impacts of material failure, and in some cases eliminating the need for screening tests. The data gives detailed information on the parameters of exposure of plastics and their different grades to chemicals and environmental conditions, i.e. chemical compound or solvent, concentration, temperature, the length of time a plastic can withstand such attacks (with, for example, weight change as a key parameter) etc. – answering key questions often arising in the process of product development. This volume comes in an easy-to-use print format – including a list of exposure media enabling cross-referencing to the main material data tables – as well as an online database with an extended data set, and advanced search and navigation features. The single most comprehensive data source covering the chemical resistance properties of thermoplastics – a must-have reference for those designing and working in sectors where thermoplastics come into contact with corrosive or reactive substances. This new edition includes new chapters that provide the underpinning knowledge needed to fully understand and apply the information in the data sections. In the print edition of this book, the data covered in the two volumes are also provided on a CD-ROM (compatible with Windows XP, Windows Vista and Windows 7 operating systems) offering extended navigation and search features.

Book Information

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Customer Reviews

William Woishnis launched the first version of 'Chemical Resistance' in 1989, and went on to co-found William Andrew Publishing the following year. He later co-founded Knovel, offering a ground-breaking combination of online books and data, providing engineers with a productivity platform that is still widely used today. He passed away on August 2, 2009. Sina Ebnesajjad is the series editor of Plastics Design Library (PDL) published in the William Andrew imprint of Elsevier. This Series is a unique series, comprising technology and applications handbooks, data books and practical guides tailored to the needs of practitioners. Sina was the editor-in-chief of William Andrew Publishing from 2005 to 2007, which was acquired by Elsevier in 2009. He retired as a Senior Technology Associate in 2005 from the DuPont fluoropolymers after nearly 24 years of service. Sina founded FluoroConsultants Group, LLC in 2006 where he continues to work. Sina earned his Bachelor of Science from the School of Engineering of the University of Tehran in 1976, Master of Science and PhD from the University of Michigan, Ann Arbor, all in Chemical Engineering. He is author, editor and co-author of fifteen technical and data books including five handbooks on fluoropolymers technology and applications. He is author and co-author of three books in surface preparation and adhesion of materials, two of which are in their second editions. Sina has been involved with technical writing and publishing since 1974. His experiences include fluoropolymer technologies (polytetrafluoroethylene and its copolymers) including polymerization, finishing, fabrication, product development, failure analysis, market development and technical service. Sina holds six patents.

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