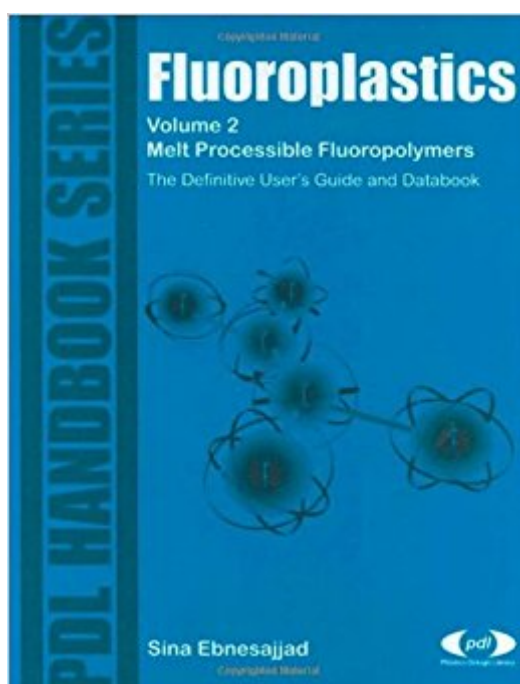




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Fluoroplastics, Volume 2: Melt Processible Fluoroplastics: The Definitive User's Guide (Plastics Design Library)



Synopsis

This is the second of a two volume series of books about fluoroplastics. Volume 1 covers the non-melt processible homopolymers, requiring non-traditional processing techniques. Volume 2 is devoted to the melt-processible fluoropolymers, their polymerization and fabrication techniques including injection molding, wire, tube, and film extrusion, rotational molding, blow molding, compression molding, and transfer molding. Both a source of data and a reference, the properties, characteristics, applications, safety, disposal, and recycling of melt-processible fluoropolymers are comprehensively detailed for immediate use by today's practicing engineering and scientists in the plastics industry. Students will benefit from the book's arrangement and extensive references.

Book Information

Series: Plastics Design Library (Book 2)

Hardcover: 687 pages

Publisher: William Andrew; 1 edition (January 14, 2003)

Language: English

ISBN-10: 1884207960

ISBN-13: 978-1884207969

Product Dimensions: 8.5 x 1.4 x 11 inches

Shipping Weight: 4.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #3,756,393 in Books (See Top 100 in Books) #66 in [Books > Science & Math > Chemistry > Organic > Organometallic Compounds](#) #349 in [Books > Engineering & Transportation > Engineering > Chemical > Plastics](#) #1074 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles](#)

Customer Reviews

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 of 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.

This is a continuation of a previously published book on fluoroplastics by the same author. This volume covers the melt-processable fluoroplastics, one of the fastest growing segments of fluoropolymeric materials. The written material is very well and logically organized. The book emphasizes the practical over theoretical, although it still covers relevant scientific principles involved in the synthesis of monomers, polymerization, properties and processing. Each melt-processing technology is introduced and very well explained. Additional topics covered are applications, safety, disposal and recycling of fluoropolymers. Numerous appendices contain test methods and technical properties of the commercial products, such as high temperature resistance, permeation etc. A comprehensive glossary is also included. The ample references at the end of each chapter serve as a resource for more detailed reading on the given subject. There are numerous review papers included, which represent additional relevant resource for the reader. Fluoroplastics, Volume 2 contains a wealth of useful information and quality data for the student, for the engineer in process or product development or for the scientist in industrial research and development or for the university teacher interested in technology. It is definitely the most comprehensive and informative work on the subject published so far.

This is an excellent, thorough work covering this fast-growing segment of the polymer science and technology. Its title claims to be "The Definitive User's Guide and Databook" and it is just that. It covers everything from fundamentals, synthesis of monomers, polymerization, structure and properties and a large variety of essential processing and fabrication methods and applications pertaining to melt processable fluoropolymers. Although all chapters of the book are put together impeccably, those dealing with processing are the strongest ones. Each processing method is explained first and then the details applicable to fluoropolymers are discussed thoroughly. Seven appendices provide information on high temperature resistance, permeation properties of certain fluoroplastics, mechanical, thermal, electrical and physical properties of FEP films, and modulus

data for fluoroplastics. A very thorough glossary and a list of trademarks are included and represent additional valuable resources for the reader.

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