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Edited by John Scheirs (ExcelPlas Australia, Edithvale) and Duane Priddy (Priddy & Associates, LLC, Midland, MI). J. Wiley and Sons, Ltd: Chichester. 2003. xxxiv + 758 pp. \$330.00. ISBN 0-471-49752-5. Daniel M. Knauss

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Styrenic polymers encompass a broad

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range of types from commodity plastics to engineering polymers. Early polystyrenes - whilst having many favourable attributes such as outstanding clarity, high gloss, ease of processability and low cost - suffered from brittleness and poor chemical resistance.

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major advances that have occurred over the past five years in the polymerization and structure of new generation polystyrenes that are broadening its scope of application. It covers the advent of branched polystyrenes, syndiotactic polystyrene, high-molecular weight general purpose PS, styrenic interpolymers, and clear SBS copolymers Presents voluminous research previously only reported at conferences in one reference Unique coverage of a topic not found in the field

Brydson's Plastics Materials, Eighth Edition, provides a comprehensive overview of the commercially available plastics materials that bridge the gap between theory and practice. The book enables scientists to understand the commercial implications of their

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work and provides engineers with essential theory. Since the previous edition, many developments have taken place in plastics materials, such as the growth in the commercial use of sustainable bioplastics, so this book brings the user fully up-to-date with the latest materials, references, units, and figures that have all been thoroughly updated. The book remains the authoritative resource for engineers, suppliers, researchers, materials scientists, and academics in the field of polymers, including current best practice, processing, and material selection information and health and safety guidance, along with discussions of sustainability and the commercial importance of various plastics and additives, including nanofillers and graphene as property modifiers. With a 50 year history as

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the principal reference in the field of plastics material, and fully updated by an expert team of polymer scientists and engineers, this book is essential reading for researchers and practitioners in this field. Presents a one-stop-shop for easily accessible information on plastics materials, now updated to include the latest biopolymers, high temperature engineering plastics, thermoplastic elastomers, and more Includes thoroughly revised and reorganised material as contributed by an expert team who make the book relevant to all plastics engineers, materials scientists, and students of polymers Includes the latest guidance on health, safety, and sustainability, including materials safety data sheets, local regulations, and a discussion of recycling issues

Download Ebook Modern Styrenic Polymers Polystyrenes And Styrenic

Syndiotactic Polystyrene (SPS), synthesized in a laboratory for the first time in 1985, has become commercialized in a very short time, with wide acceptance on the global plastics market. Written by leading experts from academia and industry from all over the world, Syndiotactic Polystyrene offers a comprehensive review of all aspects of SPS of interest to both science and industry, from preparation and properties to applications. This essential reference to SPS covers: The preparation of syndiotactic polystyrene by half-metallocenes and other transition metal catalysts The structure and fundamental properties, especially morphology and crystallization and solution behavior The commercial process for SPS manufacturing

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Properties, processing, and applications of syndiotactic polystyrenes Polymers based on syndiotactic polystyrenes, for example, by functionalization and modification, and nanocomposites Ideal for polymer chemists, physicists, plastics engineers, materials scientists, and all those dealing with plastics manufacturing and processing, this important resource provides the information one needs to compare, select, and integrate an appropriate materials solution for industrial use or research.

Styrenic polymers are among the economically most important plastics. They combine benign processing with a large variety of product properties - from stiff and transparent to tough and durable. The fact that styrene can be

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Polymerized by different reaction mechanisms (radical, ionic and metal catalyzed) makes this line of products unique in regards to the variety of its properties and applications. The primary objective of this book is to provide a detailed understanding of structure and property relationships of styrenic polymers, and their specific use in various applications. By understanding basic chemistry, supermolecular assembly of block- and graft polymers and microscopic fracture mechanisms, the reader will be able to quickly derive macroscopic behavior and hence select the most suitable polymer for a given application. The second objective of this book is to provide a comprehensive overview about unique value propositions of styrenic polymers in different industries and applications.

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The reader will get an in-depth understanding of why specific styrenic polymers dominate in market segments like computer and printer housings, exterior automotive parts and the food packaging industry, and what the specific customer benefits of using these polymers are. Finally, the third objective is to provide an outlook for future product and application developments. Hence it serves not only as a quick reference guide for downstream industries, but also as a practical guide for students and researchers in this field of material science.

Polystyrene represents one of the oldest and the most widespread polymers in the world. Its starts as far back as 1839 when a German apothecary Edmon Simon distilled an

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oilily liquid named styrol from the resin of Turkish sweet gum trees. In several days, the sterol converted into a jelly product that he thought resulted from the oxidation process. For that reason, the jelly product received the name styroloxide. This book discusses the synthesis of polystyrene, as well as the characteristics and applications of this polymer.

Covering a broad range of polymer science topics, Handbook of Polymer Synthesis, Characterization, and Processing provides polymer industry professionals and researchers in polymer science and technology with a single, comprehensive handbook summarizing all aspects involved in the polymer production chain. The handbook focuses on industrially important polymers, analytical

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techniques, and formulation methods, with chapters covering step-growth, radical, and co-polymerization, crosslinking and grafting, reaction engineering, advanced technology applications, including conjugated, dendritic, and nanomaterial polymers and emulsions, and characterization methods, including spectroscopy, light scattering, and microscopy.

This book is an overview of ESIS Technical Committee 4's activities since the mid-1980s. A wide range of tests is described and the numerous authors is a reflection of the wide and enthusiastic support we have had. With the establishment of the Technical Committee 4, two major areas were identified as appropriate for the activity. Firstly there was an urgent need for standard, fracture

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mechanics based, test methods to be designed for polymers and composites. A good deal of academic work had been done, but the usefulness to industry was limited by the lack of agreed standards.

Secondly there was a perceived need to explore the use of such data in the design of plastic parts. Some modest efforts were made in early meetings to explore this, but little progress was made. In contrast things moved along briskly in the standards work and this has dominated the activity for the last fourteen years. The design issue remains a future goal.

Polymers are an example of “products-by-process”, where the final product properties are mostly determined during manufacture, in the reactor. An understanding of processes occurring

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in the polymerization reactor is therefore crucial to achieving efficient, consistent, safe and environmentally friendly production of polymeric materials. Polymer Reaction Engineering provides the link between the fundamentals of polymerization kinetics and polymer microstructure achieved in the reactor. Organized according to the type of polymerization, each chapter starts with a description of the main polymers produced by the particular method, their key microstructural features and their applications. Polymerization kinetics and its effect on reactor configuration, mass and energy balances and scale-up are covered in detail. The text is illustrated with examples emphasizing general concepts, principles and methodology. Written as an authoritative guide for

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chemists and chemical engineers in industry and academe, Polymer Reaction Engineering will also be a key reference source for advanced courses in polymer chemistry and technology.

Provides an overview of the family of polyester polymers which comprise an important group of plastics that span the range of commodity polymers to engineering resins. It describes the preparation, properties and applications of polyesters. Readers will also find details on polyester-based elastomers, biodegradable aliphatic polyester, liquid crystal polyesters and unsaturated polyesters for glass-reinforced composites. Presents an overview of the most recent developments. Explores synthesis, catalysts, processes, properties and

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applications. Looks at emerging polyester materials as well as existing ones. Written by foremost experts from both academia and industry, ensuring that both fundamentals and practical applications are covered.

Provides complete and undiluted knowledge on making inorganic polymers functional. This comprehensive book reflects the state of the art in the field of inorganic polymers, based on research conducted by a number of internationally leading research groups working in this area. It covers the synthesis aspects of synthetic inorganic polymers and looks at multiple inorganic monomers as building blocks, which exhibit unprecedented electronic, redox, photo-emissive, magnetic, self-healing

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and catalytic properties. It also looks at the applications of inorganic polymers in areas such as optoelectronics, energy storage, industrial chemistry, and biology. Beginning with an overview of the use of smart inorganic polymers in daily life, *Smart Inorganic Polymers: Synthesis, Properties and Emerging Applications in Materials and Life Sciences* goes on to study the synthesis, properties, and applications of polymers incorporating different heteroelements such as boron, phosphorus, silicon, germanium, and tin. The book also examines inorganic polymers in flame-retardants, as functional materials, and in biology. An excellent addition to the polymer scientists' and synthetic chemists' toolbox Summarizes the state of the art on how to make and use functional inorganic polymers, from synthesis to

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Applications Edited by the coordinator of a highly funded European community research program (COST action) that focuses specifically on the exploration of inorganic polymers Features contributions from top experts in the field Aimed at academics and industrial researchers in this field, Smart Inorganic Polymers: Synthesis, Properties and Emerging Applications in Materials and Life Sciences will also benefit scientists who want to get a better overview on the state-of-the-art of this rapidly advancing area.

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