

3 Latex Compounding Ingredients

The different compounding ingredients used in rubber latex can be grouped into curing agents, sulfur, accelerators, antioxidants, fillers, pigments, stabilisers, thickening and wetting agents, and other ingredients such as: heat sensitisers, plasticisers, viscosity modifiers, and so on.

3.1 Compounding Ingredients

3.1.1 Curing Agent: Sulfur

Sulfur is the universal vulcanising agent for natural rubber and also for synthetic rubbers, which contain olefinic unsaturation in the polymer chain, whether these polymers are in latex form or in the form of dry rubber. Sulfur is the main vulcanising agent for natural rubber, synthetic polyisoprene, styrene-butadiene rubber, acrylonitrile-butadiene rubber, polybutadiene rubber, and so on. The crosslinks formed during sulfur vulcanisation of olefinically unsaturated rubber are of three types: monosulfidic, disulfidic and polysulfidic. The relative properties of above crosslinks have an implication in the mechanical and ageing behaviour of vulcanisates. Monosulfidic and disulfidic crosslinks give better ageing resistance compared to polysulfidic linkage, whereas the initial tensile properties are better for a rubber vulcanisates with polysulfidic linkage. When the amount of sulfur used is high, a higher percentage of polysulfidic linkage is formed.

Sulfur to be used for latex compound should be of good quality and easily dispersed in water. Colloidal sulfur is preferred for latex compounds, which is obtained by a reaction between hydrogen sulfide and sulfur dioxide in an aqueous medium [1].

Thiurams, for example, tetramethylthiuram disulfide (TMTD) with disulfidic linkage can be used as a vulcanising agent in olefinically unsaturated rubber in the absence of elemental sulfur (sulfurless curing). This type of curing is superior to conventional curing for heat resistance, oxidative aging resistance, and so on.

Butyl xanthogen disulfide (at 4 phr) in presence of zinc oxide can be used for vulcanising rubber latex without elemental sulfur. Vulcanisate properties of this system are inferior to those obtained using the thiuram system.

Practical Guide To Latex Technology

Arthur James Wells



Practical Guide To Latex Technology:

Practical Guide to Latex Technology Rani Joseph, 2013-01-01 Latex based technology forms a sizable fraction of natural and synthetic rubber technology and an introduction to the important technologies is beneficial to all practicing technical personnel This book offers a condensed practical guidance on the technologies used for the production of important latex products The book begins with a short history of natural rubber latex formation in the tree and the tapping storage and conversion of latex to marketable forms It discusses preservation and concentration of natural rubber latex and the most widely used latex compounding ingredients Dipping

Advances in Sustainable Construction Materials Sabyasachi Biswas, Subhadeep Metya, Sanjay Kumar, Pijush Samui, 2021-04-10 This book presents select proceedings of National Conference on Advances in Sustainable Construction Materials ASCM 2020 and examines a range of durable energy efficient and next generation construction materials produced from industrial wastes and by products The topics covered include sustainable materials and construction innovations in recycling concrete green buildings and innovative structures utilization of waste materials in construction geopolymer concrete self compacting concrete by using industrial waste materials nanotechnology and sustainability of concrete environmental sustainability and development recycling solid wastes as road construction materials emerging sustainable practices in highway pavements construction plastic roads pavement analysis and design application of geosynthetics for ground improvement sustainability in offshore geotechnics green tunnel construction technology and application ground improvement techniques and municipal solid waste landfill Given the scope of contents the book will be useful for researchers and professionals working in the field of civil engineering and especially sustainable structures and green buildings

Composites in Biomedical Applications S. M. Sapuan, Y. Nukman, N.A. Abu Osman, R.A. Ilyas, 2020-09-26 Composites in Biomedical Applications presents a comprehensive overview on recent developments in composites and their use in biomedical applications It features cutting edge developments to encourage further advances in the field of composite research Highlights a completely new research theme in polymer based composite materials Outlines a broad range of different research fields including polymer and natural fiber reinforcement used in the development of composites for biomedical applications Discusses advanced techniques for the development of composites and biopolymer based composites Covers fatigue behavior conceptual design in ergonomics design application tissue regeneration or replacement and skeletal bone repair of polymer composites Details the latest developments in synthesis preparation characterization material evaluation and future challenges of composite applications in the biomedical field This book is a comprehensive resource for advanced students and scientists pursuing research in the broad fields of composite materials polymers organic or inorganic hybrid materials and nano assembly

Rubber Materials Marianella Hernández Santana, Saul Utrera-Barrios, 2025-06-27 Rubber Materials Fundamentals Sustainability and Applications provides a fresh perspective on the potential of rubber materials in the 21st century when our global society faces unprecedented challenges

related to resource consumption waste management and environmental impact The book begins with an overview of the foundation of rubber science covering fundamental principles recent advancements and future challenges Sections discuss sustainability aspects and emerging trends within elastomer science and technology all within the context of the 7Rs of the circular economy Finally the book presents advanced sustainable applications of rubber materials in diverse fields including robotics healthcare energy and more This book serves as a valuable reference to materials scientists industrial and academic researchers and R D professionals seeking to explore sustainable solutions in the realm of rubbers and elastomers including their green applications Presents a thorough overview of the current state of the field of rubber science and technology encompassing recent breakthroughs in areas such as self healing materials recyclability upcycling smart rubbers and much more Incorporates fundamentals emerging trends and sustainable applications Emphasizes the importance of sustainable practices and circular economy principles addressing the critical need for innovative and eco friendly materials

Industrial Applications of X-Ray Diffraction Frank Smith,1999-09-22 By illustrating a wide range of specific applications in all major industries this work broadens the coverage of X ray diffraction beyond basic tenets research and academic principles The book serves as a guide to solving problems faced everyday in the laboratory and offers a review of the current theory and practice of X ray diffraction major

Latex Dipping David M. Hill,2019-03-04 Latex products that we use in everyday life have a great impact on health and lifestyle This book gives a comprehensive overview of how raw materials are prepared for latex manufacture and how they are converted to products by modern latex dipping methods Tools for how to solve production problems encountered quality control and how to validate the processes used in the latex industry are thoroughly discussed and described

Resources in Education ,1998

Nanocarbons Ashwini P. Alegaonkar,Prashant S. Alegaonkar,2023-02-13 This book provides a practical platform to the readers for facile preparation of various forms of carbon in its nano format investigates their structure property relationship and finally realizes them for a variety of applications taking the route of application engineering It covers the preparation and evaluation of nanocarbons variety of carbon nanotubes graphene graphite additively manufactured 3D carbon fibres their properties and various factors associated with them A summary and outlook of the nanocarbon field is included in the appendices Features Presents comprehensive information on nanocarbon synthesis and properties and some specific applications Covers the growth of carbon nanoparticles nanotubes ribbons graphene graphene derivatives porous spongy phases graphite and 3D carbon fabrics Documents a large variety of characterizations and evaluations on the nature of growth causing effect on structure properties Contains dedicated chapters on miniaturized flat and 2D devices Discusses a variety of applications from military to public domains including prevalent topics related to carbon This book is aimed at researchers and graduate students in materials science and materials engineering and physics

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