

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

J Dewey



Practical Guide To Latex Technology:

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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 **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 *Technical Manual and Year Book of the American Association of Textile Chemists and Colorists* American Association of Textile Chemists and Colorists,1954 Technical Manual and Year Book of the American Association of Textile Chemists and Colorists ,1954 Annual Report on the Progress of Rubber Technology Institution of the Rubber Industry,1945 **The British National Bibliography** Arthur James Wells,2006 Textile Technology Digest ,1974 The India-rubber Journal ,1905 **The Metallurgy of Argentiferous Lead** Manuel Eissler,1891 **Engineering Chemistry** H. Joshua Phillips,1902 *A Rudimentary Treatise on Clocks, Watches & Bells*

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