

Stabilizers

When PVC is heated to 170–180°C, chlorine and hydrogen in the molecules are eliminated and release of hydrogen chloride becomes evident. Once such decomposition starts, unstable structures are formed in the molecule, which further accelerate HCl elimination and decomposition. As PVC is heated to soften during the extrusion or moulding process, prevention of hydrogen chloride elimination due to heat and subsequent decomposition is required. The stabilizer prevents such initial elimination of hydrogen chloride from PVC.

Therefore, use of stabilizers (metal compounds) is essential to prevent the chain reaction of decomposition. They can also impart to the PVC enhanced resistance to daylight, weathering and heat ageing and have an important influence on the physical properties and the cost of a formulation. They are invariably supplied in the form of application - specific blends of which the main constituents are metal soaps, metal salts and organometallic compounds. The choice of heat stabiliser depends on a number of factors including the technical requirements of the PVC product, regulatory approval requirements and cost.

PVC is required to be stabilized during high temperature processing on three counts:

Firstly, discoloration of compound, secondly, evolution of HCL and thirdly, development of unsaturation followed by severe cross-linking which can catastrophically raise the torque/melt viscosity leading to mechanical damage to processing equipments.

The main heat stabilisers in a formulation are usually combined with co-stabilisers which are organic materials such as polyols or epoxidised esters: they provide an additive synergistic effect, especially in the case of some forms of heat stabiliser, an enhancement of overall stabiliser performance. Every stabiliser has typical uses, although a number of different types may be used in the same application sector.

Lead-based systems are being voluntarily phased out within Europe under the Vinyl 2010/VinylPlus voluntary commitments of the PVC industry. They are being replaced by Ca/Zn or Ca/organic stabilizers.

The majority of Tin stabilisers are used for rigid wrapping films, roofing and transparent rigid sheets for construction applications. Tin stabilisers are employed for drinking water applications in some countries where lead has been banned in this application for many years. The major metals contained in stabilisers are lead (Pb), barium (Ba), calcium (Ca), and tin (Sn). The stabilisers are classified into Pb stabilisers, Ba-Zn stabilisers, Ca-Zn stabilisers, and Sn stabilisers. Ba-Zn stabilisers and Ca-Zn stabilisers are used as metallic soaps such as stearates, while Sn stabilisers are used as organic tin (dialkyl tin compounds). Other than metallic soap, Pb stabilisers are used as basic sulphate, basic carbonate, or basic phosphate.

The PVC stabilizers can be grouped in four ways: Lead based stabilizers, Tin based stabilizers, mixed metal based stabilizers and finally non-metal based stabilizers. Their structures and mode of action are discussed below:-

Excellent stabilizers do act in a variety of ways, with both preventive and curative measures to stabilize PVC.

Pvc Formulation Compounding And Processinga Review And Update

Liyong Dong



Pvc Formulation Compounding And Processinga Review And Update:

Preprint, 1981* **Pvc**, PVC (Polyvinyl Chloride): Formulation, Compounding and Processing Southern California Section, The Society of Plastics Engineers, Vinyl Division, The Society of Plastics Engineers, 1981 *PVC, Formulation, Compounding and Processing, a Review and Update* Society of Plastics Engineers. Southern California Section, Society of Plastics Engineers. Vinyl Division, 1981* **PVC: Formulation, Compounding and Processing, a Review and Update** Society of Plastics Engineers. Vinyl Division, Society of Plastics Engineers. Southern California Section, 1981 *History of Polymeric Composites* Raymond Benedict Seymour, Rudolph D. Deanin, 1987-12 The commercial use of polymers in plastics elastomers coatings and adhesives almost always involves the use of additives to enhance their properties Thousands of years natural polymers have been blended with naturally occurring fillers fibers and many other substances In this century the development of synthetic polymers has led to the development of high performance polymer composites This volume is the only text describing origin and use of additives and their function in polymeric composites A panel of outstanding specialists in the field of additives have placed this in a historic perspective Apart from this up to date information on all fillers reinforcing agents stabilizers plasticizers flame retardants accelerators etc can be found in the volume **PVC**, 1981

Vinyl Retec Society of Plastics Engineers. Southern California Section, Society of Plastics Engineers. Vinyl Division, 1981 1992, □□□□ □□□□ □□□□□□ □□□□ **Index of Conference Proceedings Received** British Library. Lending Division, 1982-07 **PVC Formulation Compounding and Processing**, 1981 Directory of Published Proceedings, 1983 Brydson's Plastics Materials Marianne Gilbert, 2016-09-27 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 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 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 Annual Technical Conference Society of Plastics Engineers. Technical Conference,1978 Society of Plastics Engineers Annual Technical Conference Society of Plastics Engineers,1972 **Subject Guide to Books in Print**,1991 **PVC** J. Leadbitter,J. A. Day,J. L. Ryan,1994 This report reviews the composition and synthesis of PVC composition and formulation technology compounding and manufacturing technology and the additional range of materials made possible by blending with other polymers It is completed by around 500 abstracts selected from the Rapra Polymer Library database Engineering with Rigid PVC I. Luis Gomez,2017-11-22 This comprehensive long needed reference provides the thorough understanding required to modify and manipulate rigid PVC s thermal shear sensitivity and rheological properties helping you utilize rigid PVC most effectively in manufacturing applications as diverse as pipes house siding bottles window frames and packaging films With complete up to the minute coverage in one convenient source Engineering with Rigid PVC encompasses rheological principles resin properties and additive modification as well as polymer preparation melt processing and forming techniques major conversion operations and their manufacturing applications including actual commercial formulations and processes quality control procedures necessary to monitor compounding processes aspects of processability critical for product development and improvement and much more International in scope this time and money saver is an essential daily resource for all professionals involved in Engineering with Rigid PVC including plastics engineers polymer chemists process engineers and plastics processors and technicians Furthermore the volume is ideal for training programs and professional seminars and is an outstanding supplement for students in polymer chemistry materials science and plastics engineering **Rubber Red Book** ,1987 Ei Engineering Conference Index: pt. 1. Civil, environmental, and geological engineering ,1985

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