

## Rubber Analysis - Polymers, Compounds and Products

M.J. Forrest  
(*Rapra Technology Ltd.*)

Volume 12, Number 7, 2001

*Rapra Review Reports*

*Expert overviews covering the science and  
technology of rubber and plastics*

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# Rubber Analysis Polymers Compounds And Products

**David Mulligan**



## **Rubber Analysis Polymers Compounds And Products:**

*Rubber Analysis* M. J. Forrest, 2001 This review outlines each technique used in rubber analysis and then illustrates which methods are applied to determine which facts This d104 is a good introduction to a very complex subject area and will enable the reader to understand the basic concepts of rubber analysis Around 350 abstracts from the Rapra Polymer Library database accompany this review to facilitate further reading These include core original references together with abstracts from some of the latest papers on rubber analysis

**Analysis of Thermoset Materials, Precursors and Products** Martin J. Forrest, 2003 This report presents an overview of the chemical analysis of thermosets Materials based on thermosets present the analyst with considerable challenges due to their complexity and the wide range of polymer types and additives available This review sets out to present an introduction to the analytical techniques and methods that are used to characterise and carry out quality control work on thermosets investigate the failure of thermosets products and to deformulate thermoset compounds The review is accompanied by around 400 abstracts from papers and books in the Rapra Polymer Library database to facilitate further reading on this subject

Cure Monitoring for Composites and Adhesives David Mulligan, 2003 This report focuses on in line cure monitoring as a key way of optimising production The bulk of this review is devoted to coverage of the range of techniques used for cure monitoring Consideration is also given to other topics relevant to the implementation of cure monitoring processes An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading

**Styrenic Copolymers** Andreas Chrisochou, Daniel Dufour, 2002 This report discusses the different types of styrenic copolymers available in the market place today their properties and applications The market situation is discussed The chemistry of these materials is outlined together with a summary of manufacturing methods The morphology manufacture and properties of key materials are described This review is accompanied by summaries of the cited papers from the Rapra Polymer Library database

Polymers in Building and Construction S. M. Halliwell, 2002 This review outlines the nature culture and trends in the building and construction industry It describes the current building and construction market place and the applications and potential for the wide range of polymer materials available today This review is accompanied by indexed summaries of papers from the Rapra Polymer Library database to allow the reader to search for information on specific topics

*Polymer Processing with Supercritical Fluids* Vannessa Goodship, Erich Ogur, 2004 SCFs are currently the subjects of intense research and commercial interest Applications such as the RESS rapid expansion of supercritical fluid solutions process are part of standard industrial practice In view of their ever growing importance in the polymer industry there is a need to fully comprehend how supercritical fluids interrelate with polymeric materials to realise the potential that can be gained from their use The authors review the basic principles of SCFs and their application within the polymer industry characteristics and properties extraction of unwanted residual products polymerisation solvents and polymer impregnation Processing

applications such as plasticisation foaming and blending are also considered There is discussion of the potential within the polymer recycling industry for use of SCFs as cleaning agents or within supercritical oxidation processes Around 400 references with abstracts from recent global literature accompany this review sourced from the Polymer Library to facilitate further reading A subject index and a company index are included

**Mixing of Vulcanisable Rubbers and Thermoplastic Elastomers** P. R. Wood, 2004 This report describes the current state of the art in mixing from a practical viewpoint It begins by offering historical background against which the latest developments are set It considers both batch and continuous systems containing details of key developments by equipment manufacturers with the different concepts discussed in layman's terms This report also summarises the range of mixing techniques applied in the industry as well as methods for monitoring mixing quality both off and on line are also covered Recent academic research in rubber mixing is briefly considered providing an indication of possible future practical advances in this field This review of rubber mixing is supported by an indexed section containing several hundred key references and abstracts selected from the Rapra Abstracts database

**Natural and Wood Fibre Reinforcement in Polymers** A. K. Bledzki, V. E. Sperber, O. Faruk, 2002 This report examines the different fibre types available and the current research The authors have cited several hundred references to the latest work on properties processing and applications The different methods of fibre pretreatment are examined together with fibre properties chemistry and applications This review is accompanied by summaries of papers from the Rapra Polymer Library database

*Pharmaceutical Applications of Polymers for Drug Delivery* David S. Jones, David Jones, 2004 Annotation The review focuses on the use of pharmaceutical polymer for controlled drug delivery applications Examples of pharmaceutical polymers and the principles of controlled drug delivery are outlined and applications of polymers for controlled drug delivery are described The field of controlled drug delivery is vast therefore this review aims to provide an overview of the applications of pharmaceutical polymers The review is accompanied by approximately 250 abstracts taken from papers and books in the Rapra Polymer Library database to facilitate further reading on this subject

**Polymers in Telecommunication Devices** G. H. Cross, Graham H. Cross, 2002 This report discusses the use of polymers instead of and in conjunction with traditional platforms such as indium phosphide and ferroelectric ceramic lithium niobate Critical comparisons are made between use of polymers and alternative This review report gives an overview of all the elements of optical transmission and switching systems that are used in telecommunications and is a fully interdisciplinary account of materials and device design issues An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading

*Polyolefin Foams* Nigel Mills, N. J. Mills, 2003 Polyolefin Foams are a relatively recent development compared to the other types of foam Topics covered in this review include processing and the properties required for successful foam production the molecular structures necessary the mechanical and thermal properties and how these can be used to best advantage markets and applications The review is

accompanied by around 400 abstracts from the Polymer Library database      **Polymers in Agriculture and Horticulture**

Roger P. Brown, 2004 Polymers have been used in agriculture and horticulture since the middle of the last century There is a tremendous potential for using polymers in agriculture and our fields and garden would look very different if we did not use polymers in them This review traces the history of polymer use discusses the markets for polymers in these applications and describes in detail the different types of polymers that can be used and their specific applications An additional indexed section containing several hundred abstracts from the Polymer Library gives useful references for further reading

Developments in Thermoplastic Elastomers K. E. Kear, 2003 Thermoplastic elastomers TPEs have the elastic behaviour of rubber and the processability of thermoplastics The Freedonia Group has forecast that demand will expand by 6.4% per year to around 2.15 million tons in 2006 There is potential for these new exciting materials to expand into the much larger thermoset rubber markets This review includes comparisons between the two material types There are three major types of TPE block copolymers rubber plastic blends and dynamically vulcanised rubber plastic alloys known as thermoplastic vulcanisates The chemistry of these materials and how      *Polymer Enhancement of Technical Textiles* Roy W. Buckley, 2003 Technical d104iles are high performance speciality materials Applications are found in inflatable structures tents as reinforcement in composites for construction as body armour and vehicle protection in filters as a base for flexible printed circuits hose conveyor belts and tyres Polymer Enhancement of Technical d104iles examines the potential for these materials The review is accompanied by around 400 abstracts from papers and books in the Rapra Polymer Library database

**Nucleating Agents** Stuart Fairgrieve, 2007-11 A very important factor in obtaining optimised physical properties from a semi crystalline polymer is the size of the crystalline structures present in the material and this crucially depends on the initiation process of crystallisation of the polymer from the melt nucleation This review provides information on the development of materials and methods for influencing the nucleation of polymer crystallisation in commercial processing by means of addition of low levels of adjuvants specifically selected for this purpose      **Developments in Colorants for**

**Plastics** Ian Christensen, 2003 At a time when it is critical to many plastics processors to add value to products colorants are an essential part of the additives repertoire Plastics are often processed at very high temperatures and shear and products are exposed to heat and light Colorants must tolerate these conditions to function adequately This Rapra Review Report provides practical information for plastics processors with regard to colorant selection and the range of products and effects available The review is accompanied by around 400 abstracts from the Rapra Polymer Library database to facilitate further reading on this subject      *Additives in Polymers* Jan C. J. Bart, 2005-04-08 This industrially relevant resource covers all established and emerging analytical methods for the deformation of polymeric materials with emphasis on the non polymeric components Each technique is evaluated on its technical and industrial merits Emphasis is on understanding principles and characteristics and industrial applicability Extensively illustrated throughout with over 200 figures 400 tables

and 3 000 references      **Polymer/layered Silicate Nanocomposites** Masami Okamoto,2003 The review sets out to highlight the major developments in this field over the last decade The different techniques used to prepare PLS nanocomposites are covered The physicochemical characterisation of PLS nanocomposites and the improved materials properties that those materials can display are discussed An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database provides useful references for further reading      *Adhesion to Fluoropolymers* Derek Brewis,Ralf H. Dahm,2006      *Regulation of Food Packaging in Europe and the USA* Derek J Knight,Lesley A Creighton,2004 Annotation A wide variety of plastics are used in food contact applications and it is important that such plastics do not affect the food with which they come into contact The objective of food packaging legislation is to protect the consumer by controlling the contamination of food by chemicals transferred from the packaging Food packaging regulations are constantly under revision and differ significantly between Europe and the USA This report provides a clearly written summary of the current legislation surrounding the use of plastics in contact with food It discusses the plastics used in food packaging their characteristics and applications This review is accompanied by around 400 abstracts from papers and books in the Rapra Polymer Library database

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