

Failure of Plastics and Rubber Products

**Causes, Effects and Case Studies
Involving Degradation**

by

David Wright

Failure Of Plastics And Rubbers

H. Keskkula



Failure Of Plastics And Rubbers:

Failure of Plastics and Rubber Products D. Wright, 2001-06 Plastics and rubbers together make up the most adaptable and varied class of materials available to product designers They may be transparent or opaque rigid or flexible lightweight insulating and weatherproof They are used in almost every industry and in every part of the home Applications range from the humble hot water bottle to the sheathing on a high voltage cable and from a simple scrubbing brush to a tank for storing hydrochloric acid Products may be disposable e g packaging goods or intended to last for decades such as a buried sewage pipe However it is this very diversity which makes materials selection so difficult and appropriate design so important Indeed the one thing that all these particular products have in common is their presence in this book of failures Failures due to degradation may result from exposure to the weather or an aggressive operating environment Alternatively they may be caused by the introduction of an external agent unforeseen by the product designer They may be rapid or very slow and they may result from a combination of factors In this book Dr Wright describes the following mechanisms of polymer degradation and then illustrates each failure mechanism with a number of case studies Thermo oxidation Photo oxidation Degradation due to ionising radiation Chemical attack Environmental stress cracking Other miscellaneous effects including treeing electrochemical degradation and biodegradation Many of the case studies are based on Dr Wrights own experiences whilst working at Rapra In each case he describes the circumstances of the failure and discusses both the consequences of the failure and the lessons that may be learned from it Most of the failed products are familiar to us all and his style is both readable and informative Photographs are included where available The book will be essential reading for designers engineers product specifiers and forensic engineers Materials suppliers and processors will also benefit from the pragmatic analysis and advice it contains It will also be of value to all students of polymer science and technology providing an essential insight into the practical application of plastics and rubbers and the potential problems Finally it will be of interest to a much broader readership including anyone who ever wondered why things break and it should become a standard reference work in all technical libraries This book was written with the support of the UK Department of Trade and Industry It is intended to raise awareness of the causes and consequences of polymer product failures in order to reduce the future incidences of such failures and their considerable costs to industry

Rubber Product Failure Roger P. Brown, 2002 Rubber components are used in many demanding applications from tyres and seals to gloves and medical devices and failure can be catastrophic This review of Rubber Product Failure outlines and illustrates the common causes of failure while addressing ways of avoiding it There has been increasing pressure to improve performance so that rubbers can be used at higher temperatures and in harsher environments For example the under the bonnet temperature has increased in some vehicles and new medical devices require longer lifetimes in potentially degrading biological fluids The expectations of tyre performance in particular are increasing and retreads have been in the spotlight for failures The definition of failure depends

on the application For example a racing car engine seal that lasts for one race may be acceptable but in a normal car a life span of 10 years is more reasonable If appearance is critical as in surface coatings and paints then discolouration is failure whilst in seals leakage is not acceptable Each rubber product must be fit for the use specified by the consumer Failure analysis is critical to product improvement the cause of the problem can be much harder to find It can range from a design fault to poor material selection to processing problems to manufacturing errors such as poor dimensional tolerances to poor installation product abuse and unexpected service conditions The rubber technologist must become a detective gathering evidence understanding the material type and using deductive reasoning Testing and analysis of failed materials and components add to the information available for failure analysis For example stored aged tyres appeared superficially to be alright for use but on drum testing small cracks grew more quickly than in new tyres leading to rapid failure in service Quality control procedures such as product inspection testing and material quality checks can help to reach 100 percent reliability In critical applications such as electricians gloves for high voltage working gloves are inspected before each use while engine seals may be routinely replaced before the expected lifetime to avoid problems in the literature is not high However several reviews have been written on specific products and references can be found at the end of this review Around 400 abstracts from papers in the Polymer Library are included with an index Subjects covered include tyre wear and failure seals engine components rubber bonding failure rubber failure due to chloramine in water tank treads gloves and condoms medical devices and EPDM roofing membranes

Rubber-Modified Thermoplastics H. Keskkula, 2000 Glassy and ductile plastics require toughening to improve their range of usefulness particularly for engineering applications Rubber modified toughened thermoplastics are already in widespread use This review sets out to introduce this field and describe the state of the art An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading

Characterization and Failure Analysis of Plastics ASM International, Steve Lampman, 2003-01-01 The selection and application of engineered materials is an integrated process that requires an understanding of the interaction between materials properties manufacturing characteristics design considerations and the total life cycle of the product This reference book on engineering plastics provides practical and comprehensive coverage on how the performance of plastics is characterized during design property testing and failure analysis The fundamental structure and properties of plastics are reviewed for general reference and detailed articles describe the important design factors properties and failure mechanisms of plastics The effects of composition processing and structure are detailed in articles on the physical chemical thermal and mechanical properties Other articles cover failure mechanisms such as crazing and fracture impact loading fatigue failure wear failures moisture related failure organic chemical related failure photolytic degradation and microbial degradation Characterization of plastics in failure analysis is described with additional articles on analysis of structure surface analysis and fractography

Health and Safety in the

Rubber Industry Naesinee Chaiear,2001 This report takes a broad overview of the rubber industry and highlights the key concerns over safety that are currently being raised The statistics on the incidence of accidents are reviewed The rubber industry has been highlighted as having a higher rate of accidents than other similar industries Measures that can be taken to avoid injury from machinery are discussed including advice from the International Labour Organization on mill safety The review is accompanied by around 400 abstracts from the Rapra Polymer Library database to facilitate further reading on this subject **Plastics and Rubber International** ,1982 **Fibres, Films, Plastics and Rubbers** W.J. Roff,J.R.

Scott,2013-10-22 **Fibres Films Plastics and Rubbers** A Handbook of Common Polymers focuses on polymeric materials The book first discusses a list of sections on individual polymers Topics include olefin and vinyl type carbohydrate type synthetic condensation type organo silicon and inorganic polymers as well as proteins The text also looks at list of sections on specific properties and related information The book then discusses polyethylenes polypropylene and polytetrafluoroethylene The text also examines polystyrene Concerns include the structure chemistry physics fabrication serviceability and utilization of these materials The text also focuses on indene and coumarone indene resins polyvinyl acetate and alcohol polyvinyl formal acetal and butyral and polyacrylates and polymethacrylates The book then examines the structure chemistry physics fabrication serviceability and utilization of polyvinyl chloride polyvinylidene chloride cellulose and cellulose acetate The book also discusses the structure chemistry physics fabrication serviceability and utilization of cellulose nitrate cellulose ethers starch and regenerated proteins Same type of evaluation is also done to polyamides epoxy resins polyformaldehyde natural rubber and nitrile rubbers The text is a valuable source of information for readers interested in polymeric materials *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 **World Index of Plastics Standards** Leslie H. Breden,United States. National Bureau of Standards,1971 **Plastics** W. Gordon Simpson,1995 Now available in Softcover Bonding Elastomers G. Polaski,J.

Means,2004 This review has been written as a practical approach to bonding various kinds of elastomers to substrates such as steel and plastics as used in the manufacture of diverse products such as rubber covered rolls urethane fork lift wheels rubber lining for chemical storage or solid rocket motors engine bushes and mounts seals for transmissions electrical power connectors and military tank track pads Based on the authors years of experience working closely with end use customers

and it offers a thorough overview of how to successfully bond rubber to a given substrate in the manufacture of quality rubber engineered components This review is supported by an indexed section containing several hundred key references and abstracts selected from the Rapra Abstracts database *NBS Special Publication* ,1968 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 *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 **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 Rapra Review Reports , **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 *Emulsion Polymerisation and Latex Applications* Christopher D. Anderson,Eric S. Daniels,2003 The term latex covers emulsion polymers polymer dispersions and polymer colloids This review report provides a general overview of the emulsion polymerisation processes and explains how the resulting latices are used in industrial applications The classes of emulsion polymers are surveyed and the commercial technologies and potential future uses discussed An additional indexed section containing several hundred abstracts from the Polymer Library gives useful references for further reading **Troubleshooting Injection Moulding** Vannessa Goodship,2004 Annotation Injection moulding is one of the most commonly used processing technologies for plastics materials Proper machine set up part and mould design and material selection can lead to high quality production This review outlines common factors to check when preparing to injection mould components so that costly mistakes can be avoided This review examines the different types of surface defects that can be identified in plastics parts and looks at ways

of solving these problems Useful flow charts to illustrate possible ways forward are included Case studies and a large b257 of figures make this a very useful report Life Cycle Assessment and Environmental Impact of Polymeric Products T. J. O'Neill, 2003 This review describes the process of life cycle analysis in some detail It describes the different organisations involved in researching and applying these techniques and the database resources being used to generate comparative reports The overview explains the factors to be considered the terminology the organisations involved in developing these techniques and the legislation which is driving the whole process forward The ISO standards relating to environmental management are also discussed briefly in the document Design for the environment is covered in the report This review is accompanied by summaries of selected papers on life cycle analysis and environmental impact from the Rapra Polymer Library database

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