

Polyester resins as a matrix material in advanced fibre-reinforced polymer (FRP) composites

N. MISKOLCZI, University of Pannonia, Hungary

DOI: 10.1533/9780857098041.1.44

Abstract: The chapter discusses the use of one type of thermoset polymer, polyester, and its use as a matrix material in fibre-reinforced polymer (FRP) composites. It begins with an overview of FRP composites, before explaining why polyester is a particularly suitable material for this application, through discussion of its key properties and structures and the manufacturing processes involved. Composites can offer improved mechanical properties compared with pure polymers at no extra cost, meaning that they are widely used in a variety of applications, including in the transport industry (manufacturing passenger cars and other vehicles), marine and shipping uses, and as structural materials. Some examples of these applications, particularly in civil engineering, are provided in this chapter, along with discussion of potential future trends in the field.

Key words: fibre-reinforced polymer composites, polyester, thermoset polymers, composites, reinforced polymers, construction materials, mechanical properties.

3.1 Introduction

The development of human civilization depends on the availability of different construction materials. Metals, ceramics, composites, polymers and other materials have all been used, or are expected to be used in the future, as structural materials. However, the relative importance of these construction materials has changed over time. Composites are structural materials produced through the combination of different constituents. They were first discovered and used in antiquity: the first artificial composite was adobe, made of vegetable parts (such as straw) and mud. Since then other types of construction material have grown in importance, including natural composites such as wood and concrete. The latter part of the twentieth century has been described as the age of polymers. The first synthetic polymers were discovered in the last decade of the nineteenth century but their bulk application began after the 1950s, after which they became increasingly important. The first polymer-based composites consisted of glass fibres and polyesters, which were used in radar technology in the 1940s [1–3].

Reinforced Composites From Polyester Resins

**Sabu Thomas, Mahesh Hosur, Cintil Jose
Chirayil**



Reinforced Composites From Polyester Resins:

Reinforced Composites from Polyester Resins Maurice William Ranney,1972 *Advanced fibre-reinforced polymer (FRP) composites for structural applications* N. Miskolczi,2013-09-30 The chapter discusses the use of one type of thermoset polymer polyester and its use as a matrix material in fibre reinforced polymer FRP composites It begins with an overview of FRP composites before explaining why polyester is a particularly suitable material for this application through discussion of its key properties and structures and the manufacturing processes involved Composites can offer improved mechanical properties compared with pure polymers at no extra cost meaning that they are widely used in a variety of applications including in the transport industry manufacturing passenger cars and other vehicles marine and shipping uses and as structural materials Some examples of these applications particularly in civil engineering are provided in this chapter along with discussion of potential future trends in the field short fiber reinforced composite materials ,1982 *Applications of Unsaturated Polyester Resins* Sabu Thomas,Cintil Jose Chirayil,2023-03-30 Applications of Unsaturated Polyester Resins Synthesis Modifications and Preparation Methods takes a practical approach to unsaturated polyester based materials and their preparation for implementation in a range of innovative areas Sections introduce the background of polyester and the fundamentals of unsaturated polyester resins UPRs including chemistry additives curing and processing methods Hydrolytic stability and structure property relationships are also discussed in detail along with coverage of modification strategies for UPR and the development of bio composites incorporating natural fiber with unsaturated polyester Subsequent chapters focus on the preparation of UPR for specific target applications including in construction marine and aerospace adhesives and coatings insulation systems electrics pipeline corrosion military biomedicine and tissue engineering Finally the advantages and disadvantages of UPR compared to other resins in terms of properties and performance as well as life cycle assessment are addressed and analyzed Presents processing methods morphology structure property relationship and modification strategies for unsaturated polyester Explores sustainability in terms of lifecycle assessment of unsaturated polyester and bio composites incorporating unsaturated polyester Guides the reader to advanced applications across construction marine and aerospace adhesives and coatings electrics and many more areas Fiber Reinforced Composites Kuruvilla Joseph,Kristiina Oksman,George Gejo,Runcy Wilson,Saritha Appukuttan,2021-03-20 Polymer based fibre reinforced composites FRC s have now come out as a major class of structural materials being used or regarded as substituent s for metals in several critical components in space automotive and other industries marine and sports goods owing to their low density strength weight ratio and fatigue strength FRC s have several commercial as well as industrial applications ranging from aircraft space automotive sporting goods marine and infrastructure The above mentioned applications of FRC s clearly reveal that FRC s have the potential to be used in a broad range of different engineering fields with the added advantages of low density and resistance to corrosion compared to conventional metallic and ceramic composites However for scientists

researchers R D s to fabricate FRC s with such potential there should be careful and precise design followed by suitable process development based on properties like mechanical physical and thermal that are unique to each application Hence the last few decades have witnessed considerable research on fibre reinforced composites Fibre Reinforced Composites Constituents Compatibility Perspectives and Applications presents a widespread all inclusive review on fibre reinforced composites ranging from the different types of processing techniques to chemical modification of the fibre surface to enhance the interfacial adhesion between the matrix and fibre and the structure property relationship It illustrates how high value composites can be produced by efficient and sustainable processing methods by selecting different constituents fibres and resins Researchers in academia working in composites and accompanying areas materials characterisation and industrial manufacturers who need information on composite constituents and how they relate to each other for a certain application will find the book extremely useful when they need to make decisions about materials selection for their products Focuses on the different types of FRC s that are currently available e g from polymeric matrices to metallic and ceramic matrices from carbon fibre to different types of natural fibres and from short to long fibre reinforced their processing techniques characterization of different properties and how to improve the interfacial adhesion between an incompatible fibre and matrix and their applications Looks at crisis areas such as how to incorporate incompatible fibres and matrices together e g Non polar polypropylene matrix is not compatible with that of polar natural fibres and hence suitable surface modifications are required to make them compatible with each other along with low cost processing methods low density and high strength Uncovers clarifications to both elementary and practical problems related to the fabrication of FRCs Schematic representations depicting the interaction between different fibre types and matrices will be provided in some chapters

Unsaturated Polyester Resins Sabu Thomas, Mahesh Hosur, Cintil Jose Chirayil, 2019-07-11 Unsaturated Polyester Resins Fundamentals Design Fabrication and Applications explains the preparation techniques and applications relating to the use of unsaturated polyester resin systems for blends interpenetrating polymer networks IPNs gels composites and nanocomposites enabling readers to understand and utilize the improved material properties that UPRs facilitate Chapters cover unsaturated polyester resins and their interaction at the macro micro and nano levels in depth studies on the properties and analysis of UPR based materials and the applications of UPR based composites blends IPNs and gels across a range of advanced commercial and industrial fields This is a highly detailed source of information on unsaturated polyester resins supporting academics researchers and postgraduate students working with UPRs polyesters polymeric or composite materials polymer chemistry polymer physics and materials science as well as scientists R D professionals and engineers in industry Covers the use of unsaturated polyester resin systems for blends IPNs gels composites and nanocomposites Presents cutting edge techniques for the analysis and improvement of properties of advanced UPR based materials Unlocks the potential of unsaturated polyester resins in high performance materials for a range of advanced applications *Natural and*

Synthetic Fiber Reinforced Composites Sanjay Mavinkere Rangappa, Dipen Kumar Rajak, Suchart Siengchin, 2022-04-18

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Natural Fiber-Reinforced Composites Senthilkumar Krishnasamy, Senthil Muthu Kumar Thiagamani, Chandrasekar Muthukumar, Rajini Nagarajan, Suchart Siengchin, 2022-04-18 Natural Fiber Reinforced Composites In depth overview of thermal analysis of natural fiber reinforced composites In Natural Fiber Reinforced Composites Thermal Properties and Applications a team of distinguished researchers has delivered a comprehensive overview of the thermal properties of natural fiber reinforced polymer composites The book brings together information currently dispersed throughout the scientific literature and offers viable and environmentally friendly alternatives to conventional composites The book highlights the thermal analysis of natural fiber reinforced composites with techniques such as Thermogravimetric Analysis Dynamic Mechanical Analysis Thermomechanical Analysis Differential Scanning Calorimetry etc This book provides A thorough review of the thermal characterization of natural fiber based hybrid composites Detailed investigation of the thermal properties of polymer composites reinforced with various natural fibers such as flax fiber pineapple leaf fiber sisal sugar palm grass fiber and cane fiber Discussions on the thermal properties of hybrid natural fiber reinforced composites with various thermosetting and thermoplastic polymers Influence of nanofillers on the thermal stability and thermal decomposition characteristics of the natural fiber based hybrid composites Natural Fiber

Reinforced Composites Thermal Properties and Applications is a must read for materials scientists polymer chemists and professionals working in the industry This book is ideal for readers seeking to make an informed decision regarding materials selection for applications involving thermal insulation and elevated temperature The suitability of natural fiber reinforced composites in the automotive mechanical and civil engineering sectors is highlighted **Polymer Composites in the**

Aerospace Industry P. E. Irving, Costas Soutis, 2014-09-17 Polymer composites are increasingly used in aerospace applications due to properties such as strength and durability compared to weight Edited by two leading authorities in the field this book summarises key recent research on design manufacture and performance of composite components for aerospace structures Part one reviews the design and manufacture of different types of composite component Part two discusses aspects of performance such as stiffness strength fatigue impact and blast behaviour response to temperature and humidity as well as non destructive testing and monitoring techniques Fiberglass - Reinforced and Composite Plastics Industry DIANE Publishing Company, 1994-03 Fiberglass reinforced and composite plastic FRP C product industries generate wastes including air emissions during the fabrication process and from the use of solvents for clean up of tools molds and spraying equipment This step by step manual provides an overview of the FRP C process and operations that generate waste and presents options for minimizing waste generation through source reduction and recycling Includes pre designed assessment forms along with a detailed waste audit from a composite plastics manufacturing plant Case studies

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