

Design, Processing, and Challenges of Multicomponent Polymer Composites for Improved Electromagnetic Interference Shielding Properties: A Review

Jixiang Li, Emna Masghouni, Mathis Granger, Guillaume Sudre, Pierre Alcouffe, Didier Muller, Van Son Nguyen, Bernard Bayard, Anatoli Serghei, Bruno Sauviac, Abderrahim Maazouz, and Khalid Lamnawar*

The colossal development of modern electronic devices has inevitably led to an increase in electromagnetic interference (EMI), which has gradually become the fourth most prevalent type of pollution in the world. It is therefore necessary to seek more effective EMI-shielding materials to overcome the shortcomings of conventional metal-based materials, which include high density, a lack of mechanical flexibility, low corrosion resistance and costly processing. Conductive polymer composites (CPCs) have attracted more and more attention due to their superiority in many aspects. However, their performances should be further enhanced for future applications. One polymer with only one type of filler often cannot meet this kind of requirement. In this paper, filled polymer materials for EMI shielding are reviewed in terms of their processing, rheological properties, conductivity, and shielding effectiveness. Moreover, the combination of different ingredients and fillers when fabricating multicomponent composites for EMI shielding is also highlighted. The coordination of various components in composites with different structures, including solid, segregated, layered/sandwiched, and foamed/porous structures, is then discussed.

1. Introduction

1.1. Electromagnetic Radiation (EMR)

Electromagnetic radiation (or waves) is a type of radiation used broadly in the telecommunications field and in a large variety of

electronic devices. This allows the transport of energy without a physical support,^[1] and the use and the properties of each type of electromagnetic radiation are determined by the way that it interacts with matter and by its frequency. The following Figure 1 by Marion^[2] depicts a classification of the different types of EMR or electromagnetic waves based on their frequency and wavelength.

Visible light, radio, TV, and infrared waves, along with X rays, ultraviolet, microwaves, and gamma (γ) rays are all electromagnetic waves. The electromagnetic waves' spectrum can be divided into categories based on frequency. There are low-frequency waves (< 300 Hz), intermediate-frequency waves (between 300 Hz and 10 MHz) and high-frequency waves (> 10 MHz).^[3]

1.2. Risks Related to EMR

With the coming era of 5G and new telecom services to come, more electromagnetic (EM) waves^[4] have resulted from the rapid development of electronic communication and electronic devices, which has caused remarkable problems of EM interference (EMI). For example, EM waves deteriorate the performance of electronic devices, and the

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Processing and Design of Multicomponent Materials M. Cengiz Altan, Merve Erdal, André Bénard, 2000

Multicomponent Polymeric Materials Jin Kuk Kim, Sabu Thomas, Prosenjit Saha, 2016-08-26 The book offers an in depth review of the materials design and manufacturing processes employed in the development of multi component or multiphase polymer material systems This field has seen rapid growth in both academic and industrial research as multiphase materials are increasingly replacing traditional single component materials in commercial applications Many obstacles can be overcome by processing and using multiphase materials in automobile construction aerospace food processing and other chemical industry applications The comprehensive description of the processing characterization and application of multiphase materials presented in this book offers a world of new ideas and potential technological advantages for academics researchers students and industrial manufacturers from diverse fields including rubber engineering polymer chemistry materials processing and chemical science From the commercial point of view it will be of great value to those involved in processing optimizing and manufacturing new materials for novel end use applications The book takes a detailed approach to the description of process parameters process optimization mold design and other core manufacturing information Details of injection extrusion and compression molding processes have been provided based on the most recent advances in the field Over two comprehensive sections the book covers the entire field of multiphase polymer materials from a detailed description of material design and processing to the cutting edge applications of such multiphase materials It provides both precise guidelines and general concepts for the present and future leaders in academic and industrial sectors

Thermophysical Properties of Multicomponent Liquid Alloys Jürgen Brillo, 2016-03-21 The book gives an understanding on how thermophysical properties change as function of alloy composition and complexity In order to reach this goal data on density surface tension and viscosity as functions of alloy composition and temperature are measured and discussed for pure liquid elements liquid binary and ternary alloys

Multicomponent Hydrogels Jagan Mohan Dodda, Kalim Deshmukh, Deon Bezuidenhout, 2023-05-22 Hydrogels are highly hydrated three dimensional networks with the ability to mimic the extracellular matrix of bodily tissues and have thus found application in a wide range of biomedical applications Unique physiochemical properties such as biocompatibility water permeability stimuli responsiveness and self healing characteristics make them especially useful for use as scaffolds and matrices drug delivery tissue engineering regeneration and sensing Their weak and brittle nature however often limits their widespread application where improved mechanical strength is required To resolve this problem there has been a significant amount of research into the improvement of their mechanical properties Among these efforts versatile multicomponent hydrogels have received much attention as their physiochemical properties can be structurally engineered to provide a wide range of desired properties These multicomponent formulations also allow for the combination of natural and synthetic polymers which offers the scope to exploit the advantages of each

component with the synergistic effects resulting from mutual interactions This book critically discusses the fundamental chemistry synthesis characterisation physiochemical and biological properties of various types of multicomponent hydrogels It reviews the different strategies employed in designing and synthesizing cutting edge multicomponent hydrogels and their key applications in biomedical fields The work is suitable for researchers working in the specific area of multicomponent hydrogels and also more generally for those working in materials science biomedical engineering biomaterials science and tissue engineering

ISMANAM-2004 Akihisa Inoue,2005-09-01 ISMANAM 2004 Proceedings of the 11th International Symposium on Metastable Mechanically Alloyed and Nanocrystalline Materials held in Sendai Japan 22nd to 26th 2004

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