

Energetic Polymers Binders And Plasticizers For Enhancing Performance

Energetic Polymers Binder and Polymer Assisted Powder Processing Smart
Polymers and Their Applications Polymer Modified Asphalt
Binders Characterization of Polymeric Binders for Metal Injection Molding (MIM)
Process Polymers in Concrete Pavement Binders and Energy Savings Road
Binders and Energy Savings New Polymer Composite Materials III Polymer
Dispersions and Their Industrial Applications Chemical, Physical, and
Thermodynamic Properties of Neat and Polymer Modified Asphalt
Binders Plastics & Polymers Friction and Wear in Polymer-based
Materials Polymers in Concrete Inorganic and Organometallic Polymers
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this up to date overview provides the latest information on the performance sensitivity strength and processability aspects of propellants and explosive formulations with the nature of polymer binder plasticizer as the variable factor apart from applications this monograph explores the principles behind energetic polymers while discussing the synthetic routes and energetic characteristics of individual family of energetic polymers furthermore a number of case studies illustrate the role of energetic polymers on enhancing the performance of formulations as compared to their inert counterparts the emphasis is on safety throughout with practical guidance on how to safely handle and formulate energetic polymer based formulations with the advent of a new generation of energetic polymers this book is relevant to industry and defense organizations as well as for academic research

binder and polymer assisted powder processing is an engineering guide to powder binder based manufacturing methods it covers the basic principles current and emerging practices implementation and cost

smart polymers and their applications second edition presents an up to date resource of information on the synthesis and properties of different types of smart polymers including temperature ph electro magnetic and photo responsive polymers amongst others it is an ideal introduction to this field as well as a review of the latest research in this area shape memory polymers smart polymer hydrogels and self healing polymer systems are also explored in addition a very strong focus on applications of smart polymers is included for tissue engineering smart polymer nanocarriers for drug delivery and the use of smart polymers in medical devices additionally the book covers the use of smart polymers for textile applications packaging energy storage optical data storage environmental protection and more this book is an ideal technical resource for chemists chemical engineers materials scientists mechanical engineers and other professionals in a range of industries includes a significant number of new chapters on smart polymer materials development as well as new applications development in energy storage sensors and devices and environmental protection provides a multidisciplinary approach to the development of responsive polymers approaching the subject by the different types of polymer e g temperature responsive and its range of applications

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the metal injection molding mim process is an economically attractive method of producing large amounts of small and complex metallic parts this is achieved by combining the productivity of injection molding with the versatility of sintering of metal particulates in mim the powdered metal is blended with plastic binder to obtain the feedstock the binder imparts flowability to the blend at injection molding conditions and strength at ambient conditions after molding the binder is removed in a sequence of steps that usually involves solvent extraction and polymer burn out once the binder is removed the metal particles are sintered in this research several topics of the mim process were studied to understand how the polymeric binder similar to the one used in the sponsoring company works this was done by examining the compounding and water debinding processes the rheological and thermal properties and the microstructure of the binder metal composite at different processing stages the factors studies included the metal contents the composition of the binder and the processing conditions the three binders prepared during the course of this research were blends of a polyolefin polyoxymethylene copolymer pom and a water soluble polymer wsp the polyolefin resins included polypropylene pp high density polyethylene hdpe and linear low density polyethylene lldpe the powdered metal in the feedstocks was 316 l stainless steel the compounding studies were completed in an internal mixer under different conditions of temperature rotational speed and feedstock composition it was found that the metal concentration was the most important factor in determining the torque evolution curves the observation of microstructure with scanning electron microscope sem at different stages during compounding revealed that the metal particles neither agglomerate nor touch each other the liquid extraction of the water soluble polymer wsp from the molded parts or water debinding was investigated using two configurations of flow of water relative to the samples both permitted the reduction of the mass transfer resistance outside the parts revealing information on the diffusion of the wsp inside the part exclusively the debinding studies showed that a single effective diffusivity could be used to model the extraction process of the binder from molded parts this approach is more accurate when the debinding time is above 2 hours steady shear and dynamic experiments were conducted on the binder and feedstocks samples containing lldpe the results of both experiments revealed that the feedstocks did not show yield stress even though the highest metal content was 64 by volume therefore it was concluded that there were only hydrodynamics interactions between the metal particles the thermal characterization of binders polymers and feedstocks included differential scanning calorimetry dsc and thermogravimetric analysis tga the dsc tests were performed after preheating and quenching of the samples the heating rate was 20 c min the tga scans were conducted from room temperature to 700 c at 20 c min the dsc tests

revealed that the melting point of the polymers depressed when blended in the binders and feedstocks the depression was more intense for pom and the water soluble polymer than for the polyolefins therefore it was concluded that the melting point depression of pom and the water soluble polymer was caused by their entrapment in the polyolefin matrix and in between the metal particles the tga scans showed that the feedstocks with higher metal concentration had higher final decomposition temperature but similar onset temperature the reason was that the higher the metal concentration the more difficult the diffusion of the products of the decomposition of the binder out of the samples the morphological studies revealed that the binders were heterogeneous showing domains of the polar resins embedded in a continuous phase composed of polyolefin this distribution of phases was the result of the immiscibility between the polymeric components and of the higher concentration 70 vol of the polyolefin with respect to the polar components polyoxymethylene and water soluble polymer the deformation during steady shear testing and compounding of the binder with the metal modified the size of the dispersed domains the steady shearing increased the size of the dispersed domains by coalescence of the particles on the other hand the presence of powdered metal during compounding forced a redistribution of the dispersed phases apparently a thin heterogeneous layer of binder surrounded the metal particles while most of the polyolefin occupied the space between the coated metal particles the sem study on samples obtained after water debinding revealed that the water soluble polymer did not distribute uniformly on the surface of the molded disk of feedstock used for water debinding tests abstract

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aqueous polymer dispersions are environmentally friendly and therefore they have replaced in many applications polymers dissolved in organic solvents this substitution process is still ongoing this book discusses the world of aqueous polymer dispersions from the viewpoint of how they are applied for a better understanding it starts with a general description of the synthesis of polymer dispersions and their characterization the following chapters are dedicated to a wide variety of applications including history modern processes and typical

formulations and performance the selection and the usage of a polymer dispersion are not uniform around the world because of historical and regional differences of the technical developments and marketing demands leading scientists from industry contributed to this book ensuring that practical issues are emphasized

reviews recent advances in inorganic and organometallic polymers including new polymerization processes new polymer systems and many specialty applications discusses thermal electrical optical surface and biological properties of many systems and presents applications as resist materials gas permeable membranes high temperature thermosets corrosion resistant coatings and ceramic precursors reviews new synthetic routes to and modification of polyphosphazenes polysilanes and sol gel hybrids reports on novel inorganic polymers consisting of sulfur nitrogen metallocene silane and boron carbon backbones examines structure property relationships of many systems including polyphosphazenes and heterometallic oxopolymers such as the aluminoxanes

entirely rewritten this multi volume work has been expanded to reflect the vast changes that have occurred in polymer and plastics technology over the past twenty years after the initial volume a to amorphous polymers sixteen more volumes will be published four in each calendar year 1985 through 1988 a supplement and an index volume will be published in the first half of 1989

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