# Handbook of Polymers for Pharmaceutical Technologies

# Volume 2

Processing and Applications



#### EDITED BY

Vijay Kumar Thakur Manju Kumari Thakur



Vijay Kumar Thakur, Manju Kumari Thakur

Handbook of Polymers for Pharmaceutical Technologies, Processing and Applications Vijay Kumar Thakur, Manju Kumari Thakur, 2015-08-04 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe This 4 partset of books contains precisely referenced chapters emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry Each volume offer deep insight into the subject being treated Volume 1 Structure and Chemistry Volume 2 Processing and Applications Volume 3 Biodegradable Polymers Volume 4 Bioactive and Compatible Synthetic **Hybrid Polymers** Handbook of Polymers for Pharmaceutical Technologies, Processing and Applications Vijay Kumar Thakur, Manju Kumari Thakur, 2015-08-10 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe This 4 partset of books contains precisely referenced chapters emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry Each volume offer deep insight into the subject being treated Volume 1 Structure and Chemistry Volume 2 Processing and Applications Volume 3 Biodegradable Polymers Volume 4 Bioactive and Compatible Synthetic Hybrid Polymers Handbook of Polymers for Pharmaceutical Technologies. Volume 2, Processing and Handbook of Polymers for Pharmaceutical Technologies, Structure and Chemistry Vijay Applications ,2015 Kumar Thakur, Manju Kumari Thakur, 2015-06-19 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out

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organized solid materials The chemistry of cellulose nanomaterials and chemical modifications as well as different assembling techniques and used characterization methods and the most important properties which can be achieved by self assembly are described The chapters for example discuss subjects such as ultra light biobased aerogels based on cellulose and chitin thin films suitable as barrier layers self sensing nanomaterials and membranes for water purification The fourth volume reviews green composite materials including green raw materials such as biobased carbon fibers regenerated cellulose fibers and thermoplastic and thermoset polymers e g PLA bio based polyolefines polysaccharide polymers natural rubber bio based polyurethane lignin polymer and furfurylalchohol The most important composite processing technologies are described including prepregs of green composites compounding liquid composite molding foaming and compression molding Industrial applications especially for green transportation and the electronics industry are also described This four volume set is a must have for anyone keen to acquire knowledge on novel bionanomaterials including structure property correlations isolation and purification processes of nanofibers and nanocrystals their important characteristics processing technologies industrial up scaling and suitable industry applications. The handbook is a useful reference not only for teaching activities but also for researchers who are working in this field Functional Biopolymers Vijay Kumar Thakur, Manju Kumari Thakur, 2017-10-25 This book presents the synthesis processing and application of selected functional biopolymers as new advanced materials It reviews theoretical advances as well as experimental results opening new avenues for researchers in the field of polymers and sustainable materials The book covers various aspects including the structural analysis of functional biopolymers based materials functional biopolymer blends films fibers foams composites and different advanced applications A special emphasis is on cellulose based functional polymers but other types of functional biopolymers e g from Handbook of Composites from Renewable Materials, Functionalization chitosan starch or plant oils are also described Vijay Kumar Thakur, Manju Kumari Thakur, Michael R. Kessler, 2017-02-21 This unique multidisciplinary 8 volume set focuses on the emerging issues concerning synthesis characterization design manufacturing and various other aspects of composite materials from renewable materials and provides a shared platform for both researcher and industry The Handbook of Composites from Renewable Materials comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis structure characterization processing applications and performance of these advanced materials The Handbook comprises 169 chapters from world renowned experts covering a multitude of natural polymers reinforcement fillers and biodegradable materials Volume 4 is solely focused on the Functionalization of renewable materials Some of the important topics include but not limited to Chitosan based bio sorbents oil spill clean up by textiles pyridine and bipyridine end functionalized polylactide functional separation membranes from chitin and chitosan derivatives acrylated epoxidized flaxseed oil bio resin and its biocomposites encapsulation of inorganic renewable nanofiller chitosan coating on textile fibers for functional properties surface

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