

1. Record Nr.	UNINA9910830027203321
Titolo	Rubber nanocomposites [[electronic resource]] : preparation, properties, and applications // editors: Sabu Thomas, Ranimol Stephen
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2010
ISBN	1-282-68982-7 9786612689826 0-470-82347-X 1-61583-460-5 0-470-82346-1
Descrizione fisica	1 online resource (729 p.)
Altri autori (Persone)	ThomasSabu StephenRanimol
Disciplina	620.194 678.72 678/.72
Soggetti	Rubber Nanocomposites (Materials)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	RUBBER NANOCOMPOSITES: PREPARATION, PROPERTIES, AND APPLICATIONS; Contents; List of Contributors; Preface; Editor Biographies; 1 Nanocomposites: State of the Art, New Challenges and Opportunities; 1.1 Introduction; 1.2 Various Nanofillers; 1.2.1 Layered Silicates; 1.2.2 Nanotubes; 1.2.3 Spherical Particles; 1.2.4 Polyhedral Oligomeric Silsesquioxanes; 1.2.5 Bionanofillers; 1.3 Rubber Nanocomposites; 1.4 Future Outlook, Challenges and Opportunities; References; 2 Manufacturing Techniques of Rubber Nanocomposites; 2.1 Introduction; 2.1.1 Conventional Manufacturing Techniques 2.1.2 Rubber Nanocomposites2.1.3 Reinforcing Agent; 2.2 Melt Compounding; 2.2.1 Manufacturing Factors Control; 2.2.2 Filler Surface Modification; 2.3 Solution Blending; 2.3.1 Manufacturing Factors Control; 2.3.2 Preparing Exfoliated/Intercalated Nanocomposites; 2.4 Latex Compounding; 2.4.1 Manufacturing Factors Control; 2.4.2 The Effect of Rubber Type; 2.5 Summary; Acknowledgments; References; 3

Reinforcement of Silicone Rubbers by Sol-Gel In Situ Generated Filler Particles; 3.1 Introduction; 3.2 Synthetic Aspects; 3.2.1 General Considerations; 3.2.2 Adopted Protocols
3.3 Properties of the Hybrid Materials3.3.1 State of Dispersion; 3.3.2 Stress-Strain Curves; 3.3.3 Low Strain Dynamic Properties; 3.3.4 Mullins Effect; 3.3.5 Characterization of the Polymer-Filler Interface; 3.3.6 Thermal Properties; 3.4 Conclusions; References; 4 Interface Modification and Characterization; 4.1 Introduction; 4.1.1 Particle Size; 4.1.2 Surface Activity; 4.2 Rubber Nanocomposites Without Interface Modification; 4.2.1 Hardness and 300% Tensile Modulus; 4.2.2 Tensile Strength; 4.2.3 Tensile Strain; 4.2.4 Tear Strength; 4.2.5 Rebound Resilience; 4.2.6 Processing Properties
4.2.7 Advantages4.2.8 Disadvantages; 4.3 Interface Modification by Nonreactive Routes; 4.4 Interface Modification by Reactive Routes; 4.5 Characterization of Interface Modification; 4.5.1 Direct Methods for Interface Characterization; 4.5.2 Indirect Methods for Interface Characterization; 4.6 Conclusion; List of Abbreviations; Acknowledgments; References; 5 Natural Rubber Green Nanocomposites; 5.1 Introduction; 5.2 Preparation of Polysaccharide Nanocrystals; 5.3 Processing of Polysaccharide Nanocrystal-Reinforced Rubber Nanocomposites; 5.4 Morphological Investigation; 5.5 Swelling Behavior
5.5.1 Toluene Swelling Behavior5.5.2 Water Swelling Behavior; 5.5.3 Influence of the Chemical Modification of the Filler; 5.6 Dynamic Mechanical Analysis; 5.7 Tensile Tests; 5.8 Successive Tensile Tests; 5.9 Barrier Properties; 5.10 Conclusions; References; 6 Carbon Nanotube Reinforced Rubber Composites; 6.1 Introduction; 6.2 Functionalized Carbon Nanotubes; 6.3 Elastomeric Nanocomposites; 6.3.1 Natural Rubber; 6.3.2 Styrene-Butadiene Rubber; 6.3.3 Polyurethane Rubber; 6.3.4 Silicone Rubber; 6.4 Outlook; References; 7 Rubber/Clay Nanocomposites: Preparation, Properties and Applications
7.1 Introduction

Sommario/riassunto

Rubber Nanocomposites: Preparation, Properties and Applications focuses on the preparation, characterization and properties of natural and synthetic rubber nanocomposites. The book carefully debates the preparation of unmodified and modified nanofillers, various manufacturing techniques of rubber nanocomposites, structure, morphology and properties of nanocomposites. The text reviews the processing; characterization and properties of 0-, 1D and 2D nanofiller reinforced rubber nanocomposites. It examines the polymer/filler interaction, i.e., the compatibility between matrix and filler u

2. Record Nr.	UNINA9910255266603321
Titolo	Abuse of Dominant Position and Globalization & Protection and Disclosure of Trade Secrets and Know-How // edited by Pranvera Këllezi, Bruce Kilpatrick, Pierre Kobel
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-46891-X
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVIII, 637 pages) : 12 illustrations (6 in color); digital, PDF file(s)
Collana	LIDC Contributions on Antitrust Law, Intellectual Property and Unfair Competition, , 2199-7438
Disciplina	343.0721
Soggetti	International law Trade regulation Information technology - Law and legislation Mass media - Law and legislation International economic integration Globalization Conflict of laws Comparative law Law - Europe International Economic Law, Trade Law IT Law, Media Law, Intellectual Property Emerging Markets and Globalization Private International Law, International and Foreign Law, Comparative Law European Law
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part I - Abuse of Dominant Position and Globalization: International Report by Pinar Akman -- Austria by Gerhard Fussenegger, Florian Schuhmacher and Rainer Tahedl -- Belgium by Pierre M. Sabbadini -- Bulgaria by Anton Petrov -- France by Mathilde Boudou, Clément Hubert, Thibaut Marcerou, Georges Poulakos, Michaël Vaz d'Almeida

and Martina Isola -- Germany by Marco Hartmann-Rüppel -- Japan by Takahiko Itoh -- Lithuania by Yvonne Goldammer -- Moldova by Alexandr Svetlicinii -- Poland by Aleksander Stawicki, Bartosz Turno and Tomasz Feliszewski -- Spain by Manuel Cañadas Bouwen and Julia Suderow -- Sweden by Trine Osen Bergqvist -- Switzerland by Denis Cherpillod -- The Netherlands by Sarah Beeston and Maria Geilmann -- Ukraine by Natalia Ivanytska -- United Kingdom by Jeremy D. M. Robinson -- Part II - Protection and Disclosure of Know-How: International Report by Henrik Bengtsson -- Austria by Juliane Messner, Max W. Mosing and Rainer Schultes.-Belgium by Sophie Lens -- Brazil by Felipe Barros Oquendo -- Bulgaria by Teodora Tsenova -- France by Nizar Lajnef, Elisabeth Logeais, Vanessa Jiménez-Serrania and Guillaume Couet -- Germany by Thomas Hoeren -- Hungary by Miklós Boronkay -- Italy by Anna Gardini -- Japan by Takashi Koyama and Izumi Hayashi -- Luxembourg by Marianne Decker -- Romania by Ctlin Grigorescu and Cristina Mihai -- Spain by Ana María Ruiz Martín -- Sweden by Magnus Tonell -- Switzerland by Charlotte Boulay -- The Netherlands by Vonne Laan and Mariko Kloppenburg -- Ukraine by Anton Polikarpov -- United Kingdom by Michael Browne -- United States of America by Emilio Varanini.

Sommario/riassunto

This publication provides an unparalleled comparative analysis of two "hot topics" in the field of antitrust and unfair competition law with regard to a number of key countries. The first part of the book examines the prohibition of abuse of a dominant position and globalization in relation to two broad questions: first, whether there is consistency between the approaches of different jurisdictions to the notion of abuse, and, second, whether there are too many restrictions on legal rights and business opportunities resulting from the prohibition of abuse of dominance. The international report drafted by Professor Pinar Akman reveals that there are as many similarities as differences between the approaches of the twenty-one jurisdictions studied and presented in this book. This is an invitation to read the excellent international report as well as the reports on specific jurisdictions in order to grasp the variety of arguments and approaches of this antitrust area, which may, on the surface, appear alike. The second part gathers contributions on the question of protection and disclosure of trade secrets and know-how from various jurisdictions. The need for adequate protection of trade secrets has increased due to digitalization and the ease with which large volumes of misappropriated information can be reproduced. The comprehensive international report, prepared by Henrik Bengtsson, brings together these reflections by comparing various national positions. The book also discusses the resolutions passed by the General Assembly of the International League of Competition Law (LIDC) following a debate on each of these topics, and includes proposed solutions and recommendations.
