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| 1. Record Nr. | UNINA9910960728603321 |
| Titolo | High performance elastomer materials : an engineering approach // edited by Dariusz M. Bielinski, DSc, Ryszard Kozlowski, PhD, and Gennady E. Zaikov, DSc |
| Pubbl/distr/stampa | Waretown, NJ : , : Apple Academic Press, Inc., , [2015] ©2015 |
| ISBN | 1-77463-358-2 0-429-17442-X 1-77188-042-2 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (284 p.) |
| Collana | AAP Research Notes on Chemistry |
| Disciplina | 620.1/94 |
| Soggetti | Elastomers Rubber |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Front Cover; CONTENTS; List of Contributors; List of Abbreviations; List of Symbols; Preface; PART 1: STRUCTURE OF ELASTOMERS; 1. Segmental Mobility in Crystalline Poly(3-hydroxybutyrate) Studied by EPR Probe Technique; 2. Interfacial Layer in Blends of Elastomers with Different Polarities; 3. Influence of Molecular Structure of Components on Crystallinity and Mechanical Properties of LDPE/EPDM Blends; 4. A Study on the Structural Features of PHB-EPC Blends and Their Thermal Degradation; PART 2: INTERPHASE ELASTOMER-FILLER INTERACTIONS 5. The Structure of Nanofiller in Elastomeric Particulate-Filled Nanocomposites6. The Description of Nanofiller Particles Aggregation Within the Frameworks of Irreversible Aggregation Models; 7. The Interfacial Regions Formation Mechanism in Elastomeric Particulate-Filled Nanocomposites; 8. Boron Oxide as a Fluxing Agent for Silicone Rubber-Based Ceramizable Composites; 9. Investigation of Rubber with Microdispersed Wastes of Silicon Carbide; PART 3: MODIFICATION OF ELASTOMERS AND THEIR COMPONENTS 10. Effect of Thermo-Mechano-Chemical Changes of Natural Rubber on Some Characteristic of Rubber Compounds and Vulcanized Rubbers11. |

Radiation Crosslinking of Acrylonitrile-Butadiene Rubber. The Influence of Sulfur and Dibenzothiazole Disulfide Content on the Process; 12. Rubber Vulcanizates Containing Plasmochemically Modified Fillers; 13. The Study of Modification Process of the Indian Rubber with Functional Groups by Ozonolysis of Latex; 14. Influence of the Structure of Polymer Material on Modification of the Surface Layer of Iron Counterface in Tribological Contact

PART 4: STABILITY OF ELASTOMERS15. A Research Note on Morphology and Stability of Polyhydroxybutyrate Electrospun Nanofibers; 16. A Comprehensive Review on Application, Properties and Stabilities of CNT and the CNT Sponges; 17. Thermal Stability of Elastic Polyurethane

Sommario/riassunto

This book presents selected papers on various aspects of rubber engineering, technology, and exploitation. The contributions range from new methods of the modification of filler surface and crosslinks structure of rubber vulcanizates, through modern functional elastomer composites, to aspects of their thermal stability, flammability, and ozone degradation. Each chapter contains a brief introduction to a particular topic, a description of the experimental techniques, and a discussion on the results obtained, followed by conclusions. The book will help to broaden the knowledge of researchers in
