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Nota di contenuto	Contents -- About the Editors vii -- Preface to "Elastomers: From Theory to Applications" ix -- Sergey Panyukov -- Theory of Flexible Polymer Networks: Elasticity and Heterogeneities -- Reprinted from: Polymers 2020, 12, 767, doi:10.3390/polym12040767 1 --

Thridsawan Prasopdee and Wirasak Smitthipong -- Effect of Fillers on the Recovery of Rubber Foam: From Theory to Applications -- Reprinted from: *Polymers* 2020, 12, 2745, doi:10.3390/polym12112745 29 -- Umut D. C, akmak, Michael Fischlschweiger, Ingrid Graz and Zolt'an Major -- Adherence Kinetics of a PDMS Gripper with Inherent Surface Tackiness -- Reprinted from: *Polymers* 2020, 12, 2440, doi:10.3390/polym12112440 47 -- Rami Bouaziz, Laurianne Truffault, Rouslan Borisov, Cristian Ovalle, -- Lucien Laiarinandrasana, Guillaume Miquelard-Garnier and Bruno Fayolle -- Elastic Properties of Polychloroprene Rubbers in Tension and Compression during Ageing -- Reprinted from: *Polymers* 2020, 12, 2354, doi:10.3390/polym12102354 59 -- Alexander V. Agafonov, Anton S. Kraev, Alexander E. Baranchikov and Vladimir K. Ivanov -- Electrorheological Properties of Polydimethylsiloxane/ TiO₂-Based Composite Elastomers -- Reprinted from: *Polymers* 2020, 12, 2137, doi:10.3390/polym12092137 73 -- Jan Plagge and Manfred Kluppel -- Micromechanics of Stress-Softening and Hysteresis of Filler Reinforced Elastomers with -- Applications to Thermo-Oxidative Aging -- Reprinted from: *Polymers* 2020, 12, 1350, doi:10.3390/polym12061350 87 -- Gea Prioglio, Silvia Agnelli, Lucia Conzatti, Winoj Balasooriya, Bernd Schrittmesser -- and Maurizio Galimberti -- Graphene Layers Functionalized with A Janus Pyrrole-Based Compound in Natural Rubber -- Nanocomposites with Improved Ultimate and Fracture Properties -- Reprinted from: *Polymers* 2020, 12, 944, doi: 10.3390/polym12040944 107 -- Wenbo Luo, Youjian Huang, Boyuan Yin, Xia Jiang and Xiaoling Hu -- Fatigue Life Assessment of Filled Rubber by Hysteresis Induced Self-Heating Temperature -- Reprinted from: *Polymers* 2020, 12, 846, doi:10.3390/polym12040846 131 -- Khwanchat Promhuad and Wirasak Smitthipong -- Effect of Stabilizer States (Solid Vs Liquid) on Properties of Stabilized Natural Rubber -- Reprinted from: *Polymers* 2020, 12, 741, doi:10.3390/polym12040741 141 -- Mariapaola Staropoli, Dominik Gerstner, Aurel Radulescu, Michael Sztucki, Benoit Duez, -- Stephan Westermann, Damien Lenoble and Wim Pyckhout-Hintzen -- Decoupling the Contributions of ZnO and Silica in the Characterization of Industrially-Mixed -- Filled Rubbers by Combining Small Angle Neutron and X-Ray Scattering -- Reprinted from: *Polymers* 2020, 12, 502, doi:10.3390/polym12030502 151 -- Shota Akama, Yusuke Kobayashi, Mika Kawai and Tetsu Mitsumata -- Efficient Chain Formation of Magnetic Particles in Elastomers with Limited Space -- Reprinted from: *Polymers* 2020, 12, 290, doi:10.3390/polym12020290 167 -- Zhifei Chen, Shuxin Li, Yuwei Shang, Shan Huang, Kangda Wu, Wenli Guo and Yibo Wu -- Cationic Copolymerization of Isobutylene with 4-Vinylbenzenecyclobutylene: Characteristics -- and Mechanisms -- Reprinted from: *Polymers* 2020, 12, 201, doi:10.3390/polym12010201 177 -- Christopher G. Robertson, Sankar Raman Vaikuntam and Gert Heinrich -- A Nonequilibrium Model for Particle Networking/Jamming and Time-Dependent Dynamic -- Rheology of Filled Polymers -- Reprinted from: *Polymers* 2020, 12, 190, doi:10.3390/polym12010190 193.

Sommario/riassunto

The Special Issue "Elastomers: From Theory to Applications" focuses on the current state of the art of elastomers, both in modern developments of rubber-like compositions and applications and from a theoretical perspective. The series of 13 publications offer the latest results in several specific sub-areas of elastomer research or review selected fields and concepts. Of particular interest are new structures and functionalities incorporated into elastomers, leading to the enhanced properties of crosslinked elastomeric materials for several

applications, and/or to a better understanding of the structure
property relationships and practical behaviour.
