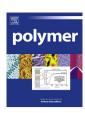


Contents lists available at ScienceDirect

Polymer





Polymer Vol. 55, No. 18, September 2014

Contents

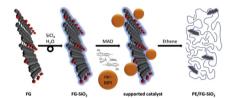
POLYMER COMMUNICATION

Gas phase mineralized graphene as core/shell nanosheet supports for single-site olefin polymerization catalysts and in-situ formation of graphene/polyolefin nanocomposites

pp 4547-4550

Felix Kirschvink^a, Markus Stürzel^a, Yi Thomann^a, Rolf Mülhaupt^{a,b,*}

^b Institute for Macromolecular Chemistry of the University of Freiburg, Stefan-Meier-Str. 31, D-79104 Freiburg, Germany



POLYMER PAPERS

Polycationic star polymers with hyperbranched cores for gene delivery

pp 4551-4562

Barbara Mendrek^a, Łukasz Sieroń^b, Marcin Libera^a, Mario Smet^c, Barbara Trzebicka^a, Aleksander L. Sieroń^b, Andrzej Dworak^a, Agnieszka Kowalczuka,*

- ^a Centre of Polymer and Carbon Materials, Polish Academy of Sciences, M. Curie-Sklodowskiej 34, 41-819 Zabrze, Poland
- ^b Department of Molecular Biology and Genetics, Medical University of Silesia, Medykow 18, 40-752 Katowice, Poland
- ^c Department of Chemistry, University of Leuven, Celestijnenlaan, 200F, Heverlee, B-3001 Leuven, Belgium







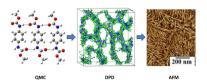


^a Freiburg Materials Research Center FMF, Stefan-Meier-Str. 21, D-79104 Freiburg, Germany

Understanding the influence of hydrogen bonding and diisocyanate symmetry on the morphology and properties of segmented polyurethanes and polyureas: Computational and experimental study

pp 4563-4576

Selim Sami^a, Erol Yildirim^c, Mine Yurtsever^c, Ersin Yurtsever^{a,**}, Emel Yilgor^{a,b}, Iskender Yilgor^{a,b,*}, Garth L, Wilkes^d

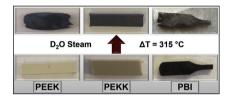


High-temperature steam-treatment of PBI, PEEK, and PEKK polymers with H₂O and D₂O: A solid-state NMR study

pp 4577-4585

Jacqueline C. Pope^a, Hung-Jue Sue^b, Tim Bremner^{b,c,**}, Janet Blümel^{a,*}

^a Department of Chemistry, Texas A&M University, College Station, TX 77842-3012, USA



Radical crossover reactions of a dynamic covalent polymer brush for reversible hydrophilicity control

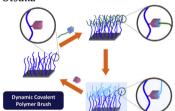
pp 4586-4592

Tomoya Sato^{a,b}, Yoshifumi Amamoto^a, Tomoyuki Ohishi^b, Yuji Higaki^{a,c}, Atsushi Takahara^{a,c,**}, Hideyuki Otsuka^{a,b,*}

^a Graduate School of Engineering, Kyushu University, 744 Motooka, Nishi-ku, Fukuoka 819-0395, Japan ^b Department of Organic and Polymeric Materials, Tokyo Institute of Technology, 2-12-1 Ookayama,

Meguro-ku, Tokyo 152-8550, Japan

^c Institute for Materials Chemistry and Engineering, Kyushu University, 744 Motooka, Nishi-ku, Fukuoka 819-0395, Japan

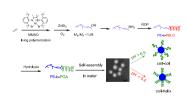


Synthesis of amphiphilic polyethylene-b-poly(L-glutamate) block copolymers with vastly different solubilities and their pp 4593-4600 stimuli-responsive polymeric micelles in aqueous solution

Haiyang Gao*, Guiliang Li, Zhilong Hu, Zefan Xiao, Guodong Liang, Qing Wu*

DSAPM Lab, PCFM Lab, School of Chemistry and Chemical Engineering, Sun Yat-Sen University, Guangzhou 510275. China

Amphiphilic polyethylene-block-poly(L-glutamate) (PE-b-PGA) diblock copolymers were synthesized. The spherical polymeric micelles self-assembled in aqueous solution exhibited pH- and ionic strength responsibility.



^a Department of Chemistry, Koc University, 34450 Sariyer, Istanbul, Turkey

^b KUYTAM Surface Science and Technology Center, Koc University, 34450 Sariyer, Istanbul, Turkey

^c Chemistry Department, Istanbul Technical University, Maslak, Istanbul, Turkey

^d Department of Chemical Engineering and Macromolecules and Interfaces Institute, Virginia Tech, Blacksburg, VA 24061-0211, USA

^b Department of Mechanical Engineering, Polymer Technology Center, Texas A&M University, College Station, TX 77843-3123, USA

^c Hoerbiger Corporation of America, Inc., 1212 Milby Street, Houston, TX 77023, USA

Download English Version:

https://daneshyari.com/en/article/5181023

Download Persian Version:

https://daneshyari.com/article/5181023

<u>Daneshyari.com</u>