

Polymer Vol 129, 27 October 2017

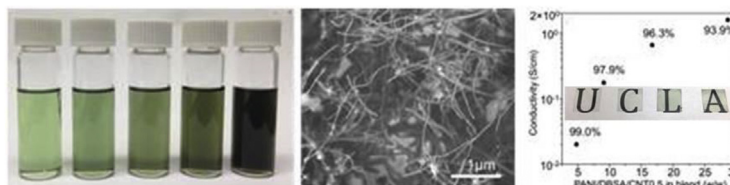
Graphical abstracts

POLYMER COMMUNICATION

Organic dispersion of polyaniline and single-walled carbon nanotubes and polyblends with poly(methyl methacrylate)

pp. 1–4

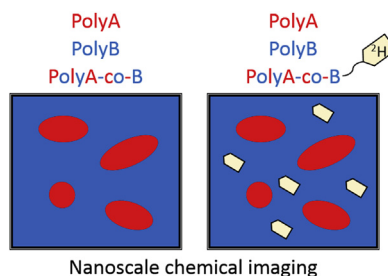
Thomas Farrell, Kan Wang, Cheng-Wei Lin and Richard B. Kaner*



Nanoscale chemical imaging of a deuterium-labeled polyolefin copolymer in a polyolefin blend by atomic force microscopy-infrared spectroscopy

pp. 247–251

Mark A. Rickard*, Gregory F. Meyers**, Brian M. Habersberger, Carl W. Reinhardt and Jamie J. Stanley

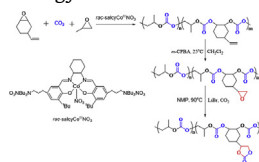


POLYMER PAPERS

Polycarbonates derived from propylene oxide, CO₂, and 4-vinyl cyclohexene oxides terpolymerization catalyzed by bifunctional salicylateCo^{III}NO₃ complex and its post-polymerization modification

pp. 5–11

Hongye Zhang, Binyuan Liu*, Huining Ding, Junwu Chen and Zhongyu Duan

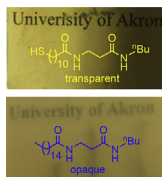


Terpolymerizations of CO₂, propylene oxide, and 4-vinyl cyclohexene oxide were successfully achieved under a single quaternary ammonium salt functionalized salenCo^{III}Cl complex. The terpolymer shows an advantage to conveniently incorporate a variety of functional groups by post-polymerization modifications. The T_g of fully cyclic carbonate-functionalized poly(cyclohexene carbonate) is up to 196 °C, which is the highest T_g of CO₂-based polycarbonate reported.

Reactive supramolecular filler for elastomer reinforcement

Xin Tan, Yihong Zhao, Mengsha Qian, Gary R. Hamed and Li Jia*

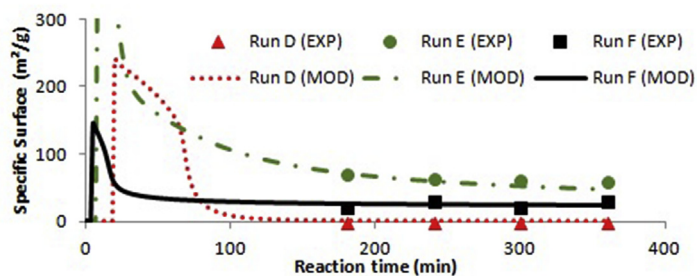
pp. 12–20



Prediction of resin textural properties by vinyl/divinyl copolymerization modeling

Leandro G. Aguiar*, Juliana O.V. Moura, Thiago R. Theodoro, Turibio G.S. Neto, Vinícius M.P. Lopes and Joslaine R. Dias

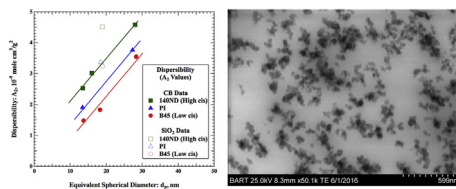
pp. 21–31



A pseudo-thermodynamic description of dispersion for nanocomposites

Yan Jin, Gregory Beaucage*, Karsten Vogt, Hanqiu Jiang, Vikram Kuppa, Jay Kim, Jan Ilavsky, Mindaugas Rackaitis, Andrew Mulderig, Kabir Rishi and Vishak Narayanan

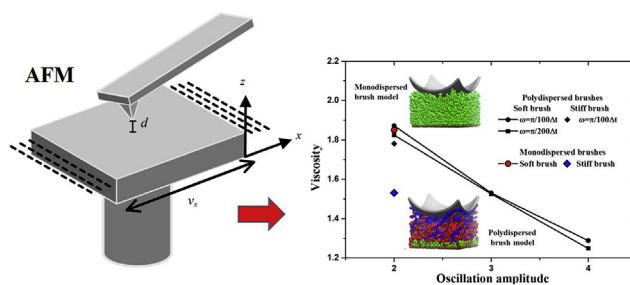
pp. 32–43



Nanorheology of poly- and monodispersed polymer brushes under oscillatory flow as models of epithelial cancerous and healthy cell brushes

J.D. Hernández Velázquez, S. Mejía-Rosales and A. Gama Goicochea*

pp. 44–56



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