Supporting Information

Phase Behavior of Polyisoprene-Poly(butylene oxide) and Poly(ethylene-alt-propylene)-Poly(butylene oxide) Block Copolymers

Ning Zhou, Timothy P. Lodge, and Frank S. Bates

Department of Chemical Engineering & Materials Science and Department of Chemistry, University of Minnesota, Minneapolis, Minnesota 55455
Figure S1. SEC profiles of PI-OH precursor ($M_n = 10,850$ g/mol), PI-\textit{b}-PBO(11-8) diblock copolymer before and after purification.
Figure S2. $^1$H NMR (500 Hz) spectrum of the purified IB(39-22) diblock copolymer.
Figure S3. a) Reduced frequency plot for representative dynamic elastic and loss data obtained from the IB(39-22) copolymer. Shift factors were determined by concurrently superimposing $G'$ (open symbols) and $G''$ (filled symbols) for $\omega > \omega_c'$ and $\omega > \omega_c''$, respectively, to the –20 °C data. b) Shift factors as a function of temperature, fitted with the WLF equation. c) Dynamic temperature ramp data for IB(39-22) at the frequency of 0.5 rad/s upon cooling.