

Supporting Information for

Persistence of Birfringence in Sheared Solutions of Wormlike Micelles

Bradley D. Frounfelker, Gokul C. Kalur, Bani H. Cipriano,
Dganit Danino and Srinivasa R. Raghavan*

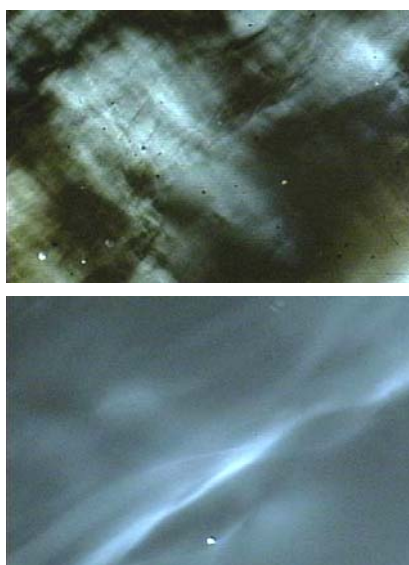


Figure S1. Polarized light microscopy of a 40 mM EHAC + 110 mM NaHN sample that has been subjected to shear. The residual birefringence is seen in both images. The top image corresponds to a 25X magnification, while the bottom one corresponds to 100X.

SANS patterns in the flow-vorticity plane for a 40 mM EHAC + 110 mM NaHN sample before, during, and after shear (Figure 7)

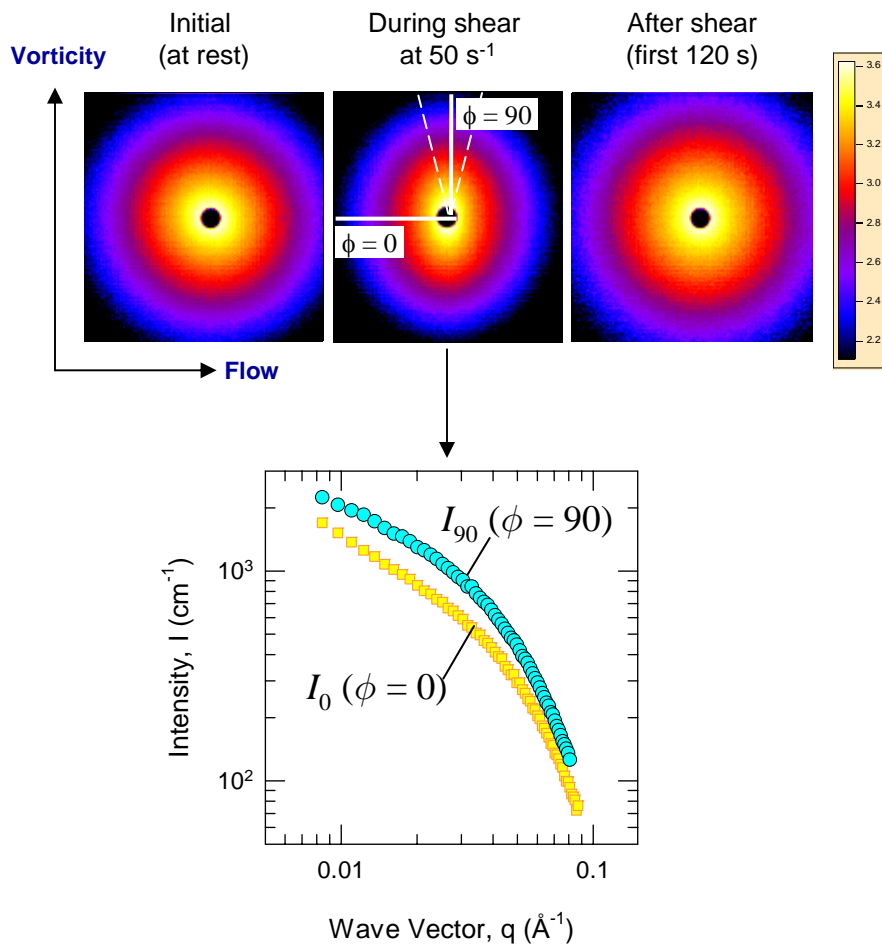


Figure S2. Intensity I vs. wave-vector q plots about the flow (I_0) and vorticity (I_{90}) directions for the anisotropic SANS pattern under shear. The data were obtained by averaging the intensity over 15° sectors centered at $\phi = 0^\circ$ and 90° , as indicated on the plot (analysis similar to that in Ref. 12).