Supplementary Information

Torsional Mechanical Responses in Azobenzene Functionalized Liquid Crystalline Polymer Networks†

Jeong Jae Wie,^{a,b} Kyung Min Lee,^{a,b} Matthew L. Smith,^{‡a} Richard A. Vaia,^a and Timothy J. White^{*a}

^b Azimuth Corporation, 4134 Linden Ave. #300, Dayton, OH 45432, United States

‡ Present address: Hope College, Engineering Department, 27 Graves Place, Holland, MI 49423



Fig S1 Aspect ratio (AR) effects were studied with twisted nematic geometry upon exposure to 445 nm laser at 270 mW/cm² for 10 min. The film dimension was 6 mm (L) x 8 μ m (T) and width was controlled to vary aspect ratios.

^a Air Force Research Laboratory, Materials and Manufacturing

Directorate, Wright Patterson Air Force Base, OH, USA. Fax: +1 937-255-1215; E-mail: Timothy. White.24@us.af.mil;



Fig. S2 Thickness effects were studied with twisted nematic geometry upon exposure to 445 nm laser at 270 mW/cm² for 10 min. The film dimension was 0.5 mm (W) x 6 mm (L) and thickness was varied.