

Supplementary Materials: Nematic structures under conical anchoring at various director tilt angles specified by polymethacrylate compositions

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1. Flow effect in LC cells with the one substrate covered by a mixture of PiBMA : PMMA without the addition of nematic LN-396

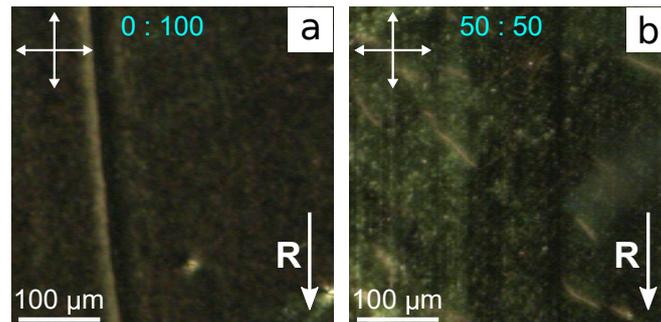


Figure S1. POM photos of LC cells with the bottom substrate covered by the rubbed PVA film and the top substrate covered by the film of polymer mixture PiBMA : PMMA = 0 : 100 (a) and 50 : 50 (b). The solid arrow indicates the rubbing direction **R**, the polarizer directions are indicated by double arrows.

2. Azimuthal orientation of the director near the domain border and the "trace", and violation of the director tilt angle at the domain border only.

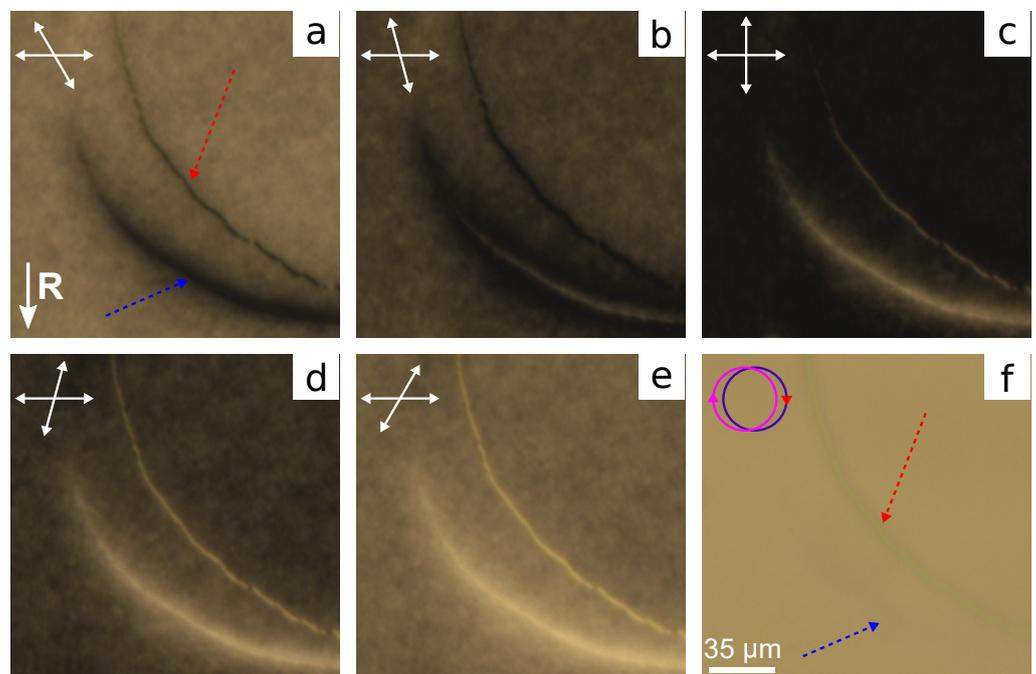


Figure S2. POM photos of LC cell with the bottom substrate covered by the rubbed PVA film and the top substrate covered by the film of PiBMA:PMMA:LN-396=80:20:20. Photos are taken at the angle between polarizer and analyzer -30° (a), -60° (b), 90° (c), 60° (d), 30° (e), and in crossed circular polarizers (f). The solid arrow indicates the rubbing direction **R**; the linear polarizer directions are indicated by double arrows; the circular polarizer directions are indicated by the circles. The domain border and "trace" are marked by red and blue dashed arrows, respectively.