

Supplementary information for

Photoinduced bending behavior of crosslinked liquid-crystalline polymer films with a long spacer

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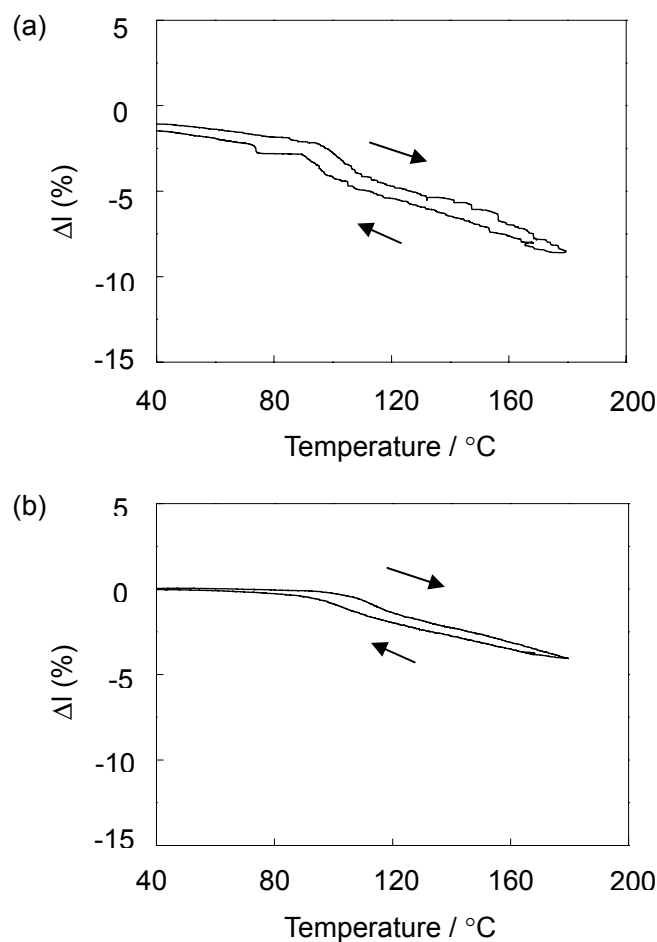


Figure S1. Thermal contraction and expansion along the alignment direction of **F6040** (a) and **F2080** (b).

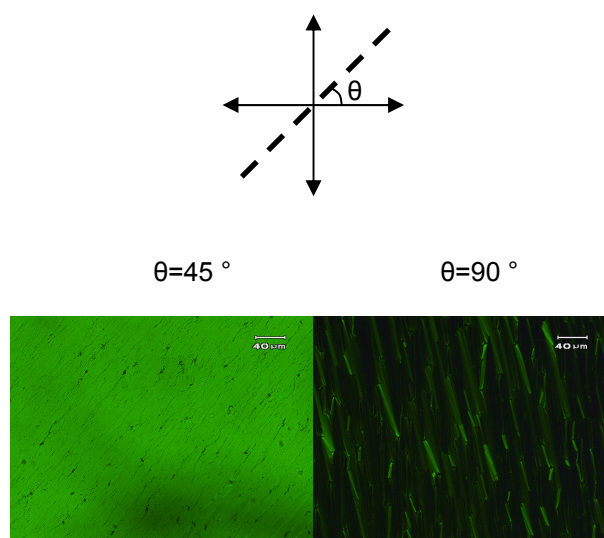


Figure S2. Polarizing optical micrographs of **F9010**. The black arrows indicate the direction of optical axes of the polarizers, while the dash line shows the rubbing direction of the alignment layers. Thickness of the film was 2 μm .

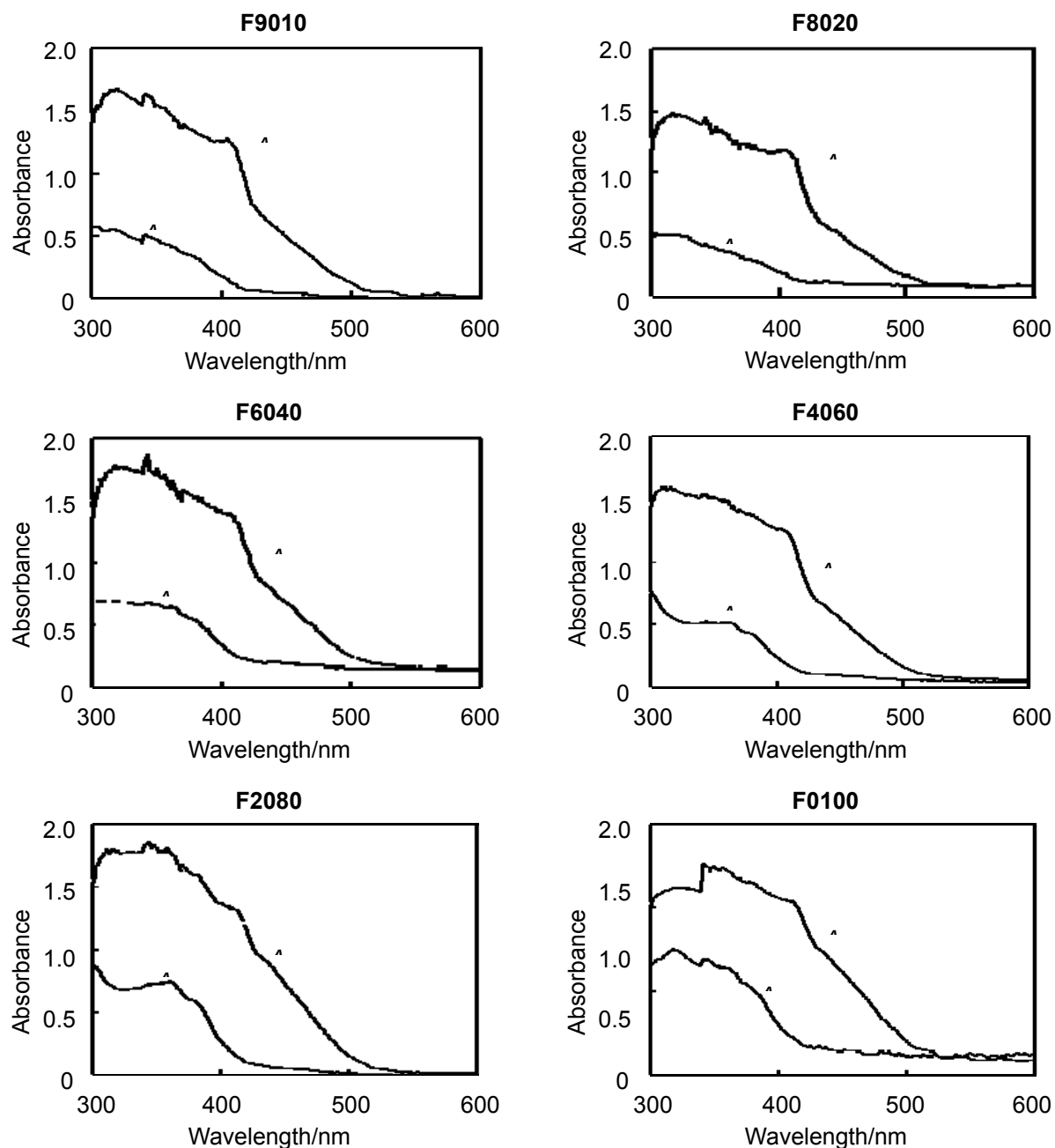


Figure S3. Polarized absorbance spectra of different CLCP films. A_{\parallel} and A_{\perp} are the absorbance measured with light polarized parallel and perpendicular to the rubbing direction of the alignment layers, respectively.

Thickness of the films was 2 μm .

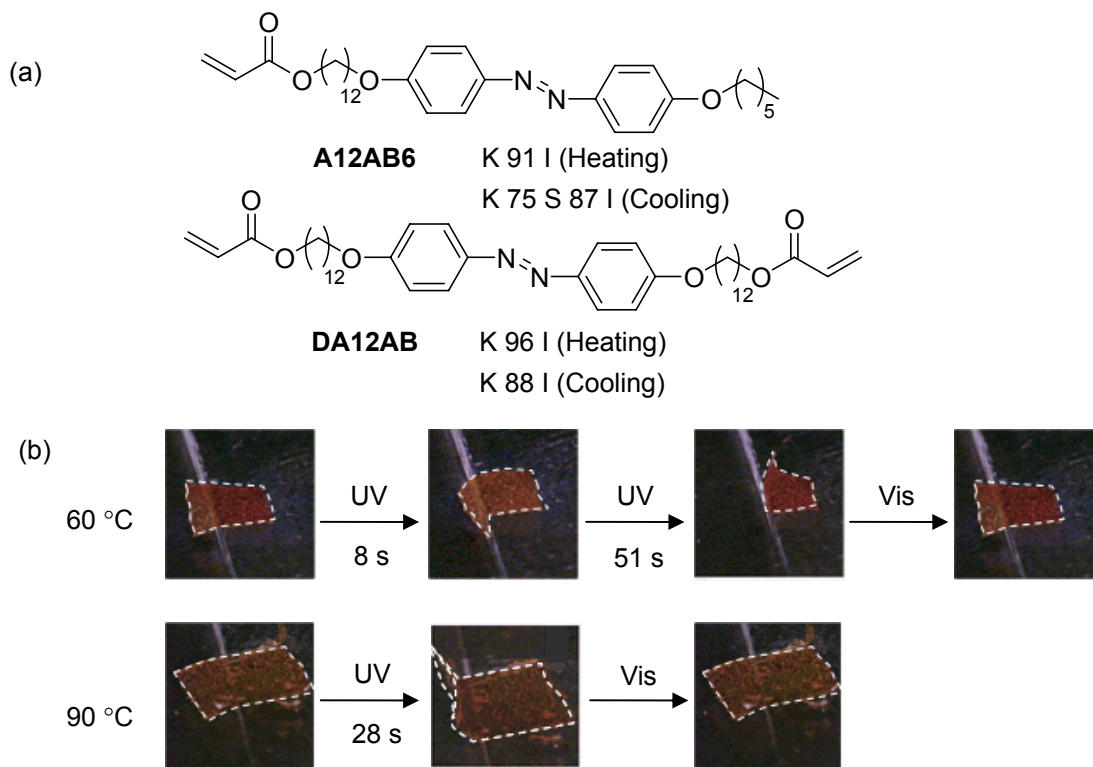


Figure S4. Chemical structures and properties of the monomer and the crosslinker used to prepare the CLCP films with a long spacer of dodecylene (a) and photographs of bending and unbending behavior of the CLCP film with 10 % crosslinking density at different temperatures upon the irradiation of UV light (366 nm, 35 mW cm⁻²) and visible light (> 540 nm) (b). Size of the film: 5 mm × 5 mm × 20 μm.