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Dual mechanochromism of cellulosic cholesteric liquid crystalline films: wide-ranging colour control and circular dichroism-inversion by mechanical stimulus

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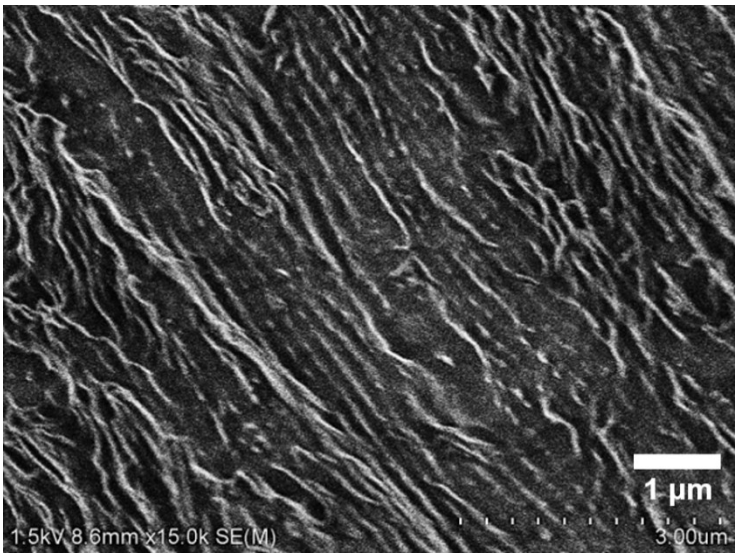

Figure S1 SEM image of fracture surface morphology of as-polymerized 47-wt% EC/PAA film.

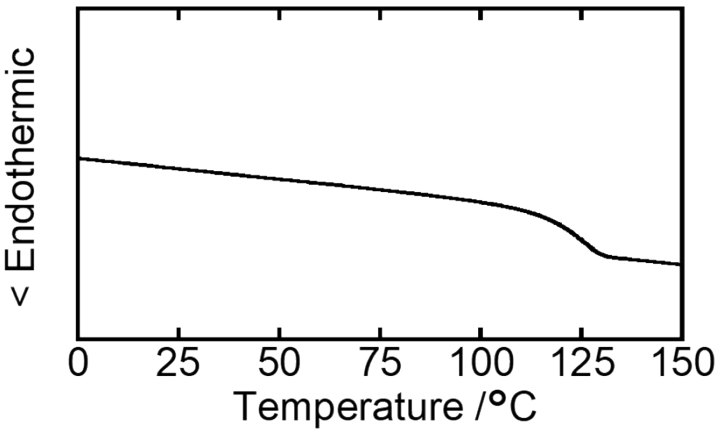

Figure S2 DSC thermogram of the 47-wt % EC/PAA film.

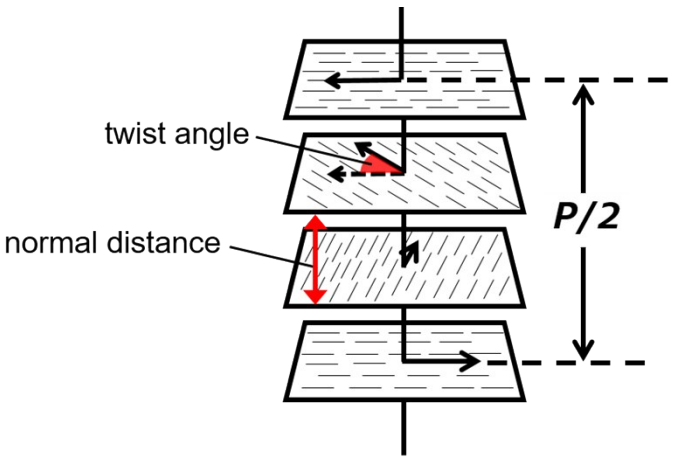

Figure S3 Schematic illustration of cholesteric phase with the helical pitch, normal distance, and twist angle.

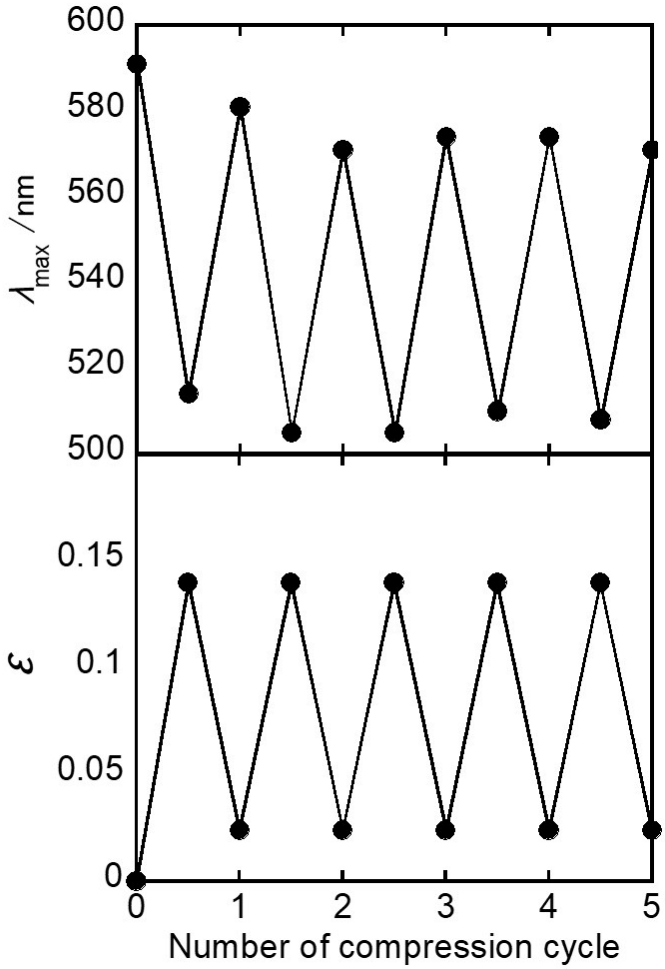

Figure S4 Plots of ε and λ_{max} for 47-wt% EC/PAA film as functions of the number of compression cycles at 130 °C.

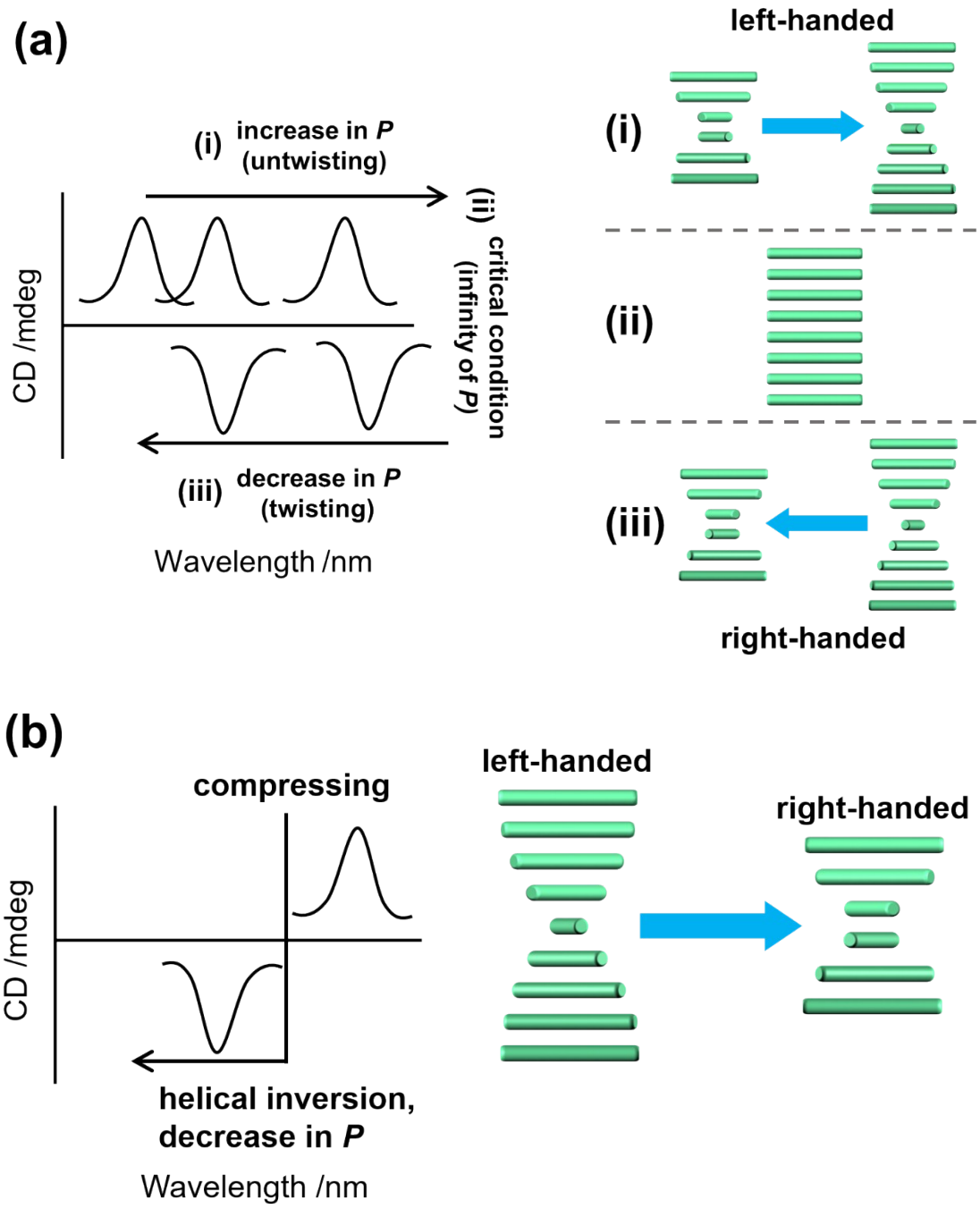

Figure S5 Schematic representations of the variations of CD spectra and the corresponding ChLC structures in the course of the helical inversion for cholesteric liquid crystalline systems: (a) the typical behavior which has been reported so far [see Refs. 26–30 for the main text] and (b) the one for the present EC/PAA system.