

# Supplementary Information

## Helical Pitch and Thickness-Dependent Opto-Mechanical

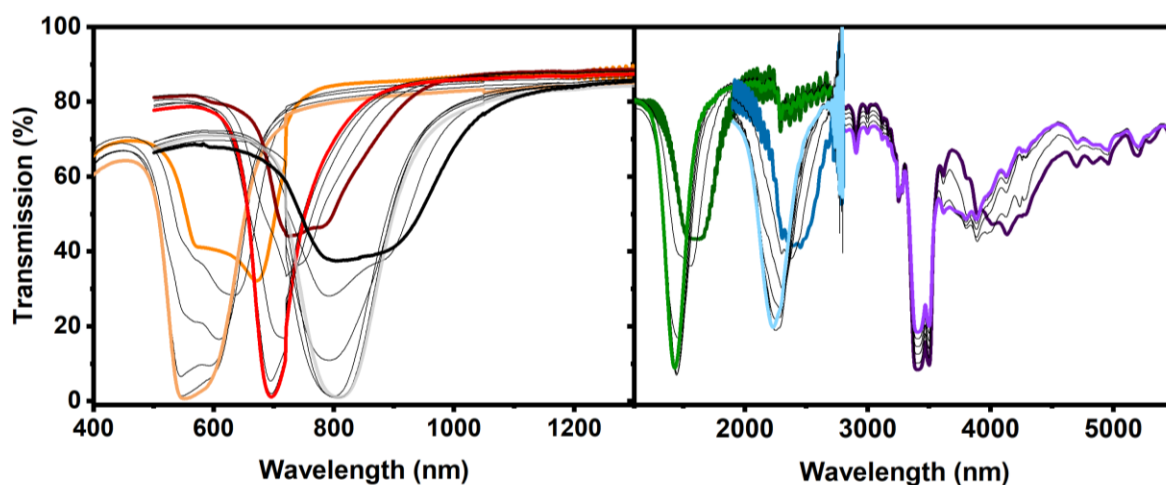
### Response in Cholesteric Liquid Crystal Elastomers

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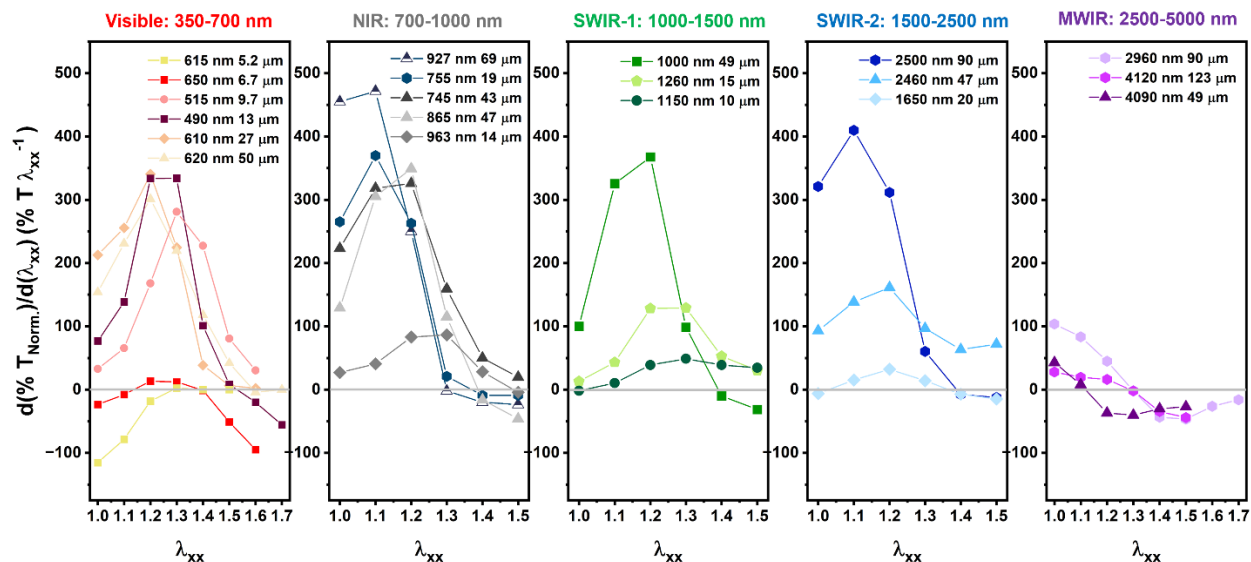
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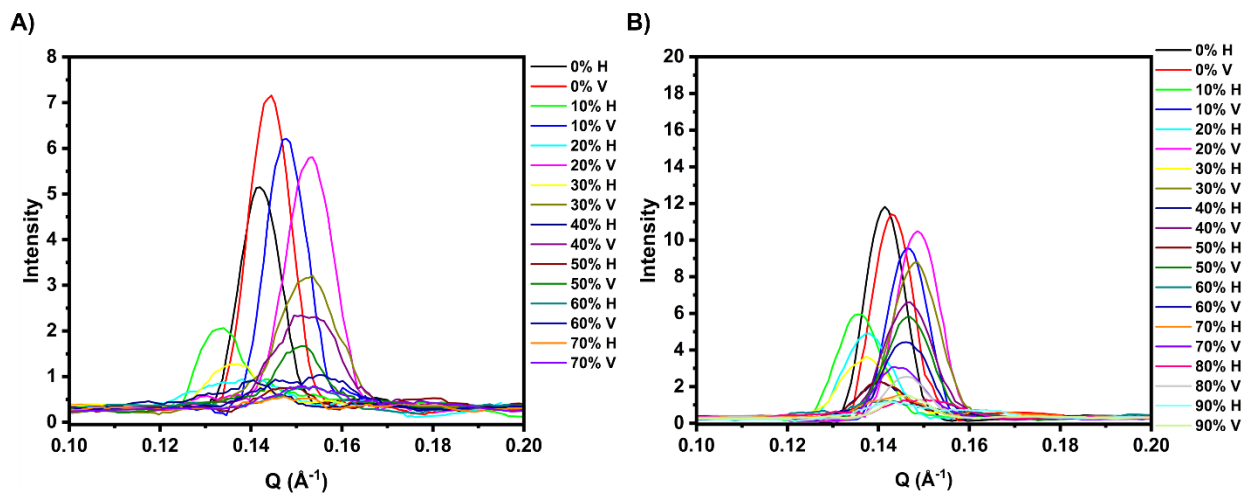
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**Figure S1:** Transmission spectra of 50 μm thick CLCEs reflecting across the electromagnetic spectrum from 0% uniaxial strain (right colored spectra) to 50% strain (left colored trace) in increments of 10%.



**Figure S2.** The rate of depolarization is represented by the derivative of the normalized transmission vs. strain for all CLCEs.



**Figure S3.** SAXS intensity vs. scattering vector plots as a function of strain in both equatorial (H) and meridional (H) directions.