

Supporting Information

Deformable Cholesteric Liquid Crystal Microcapsules for High Reflectivity Smart Coatings

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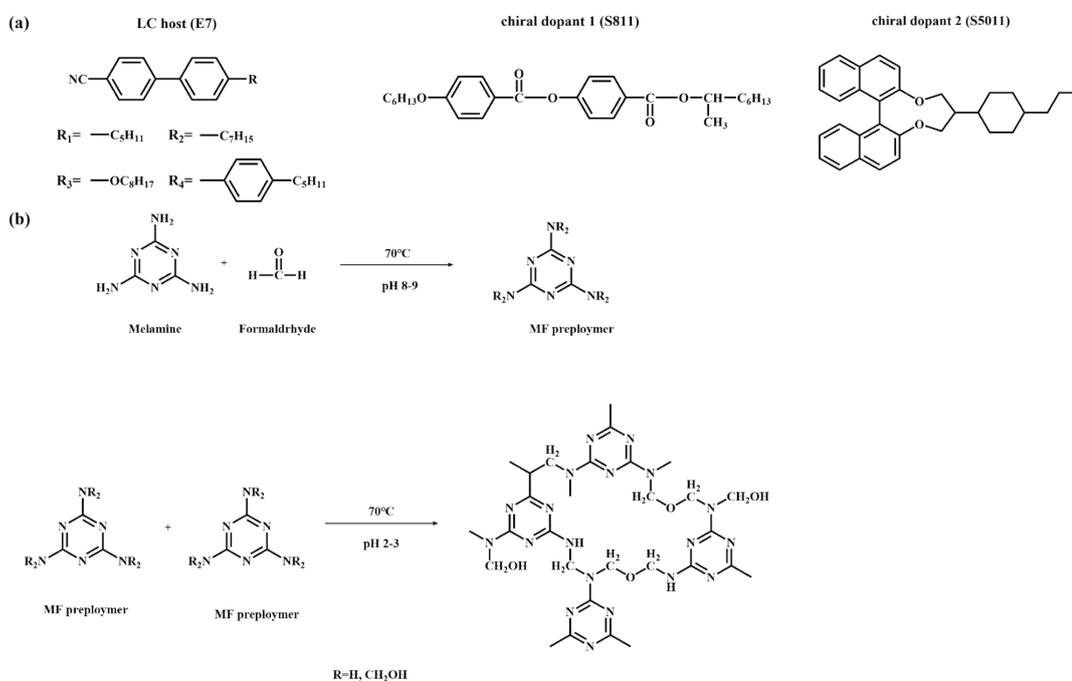


Fig. S1 (a) Chemical structures of the molecules used in the CLCMCs. (b) Reaction mechanism of MF resin.

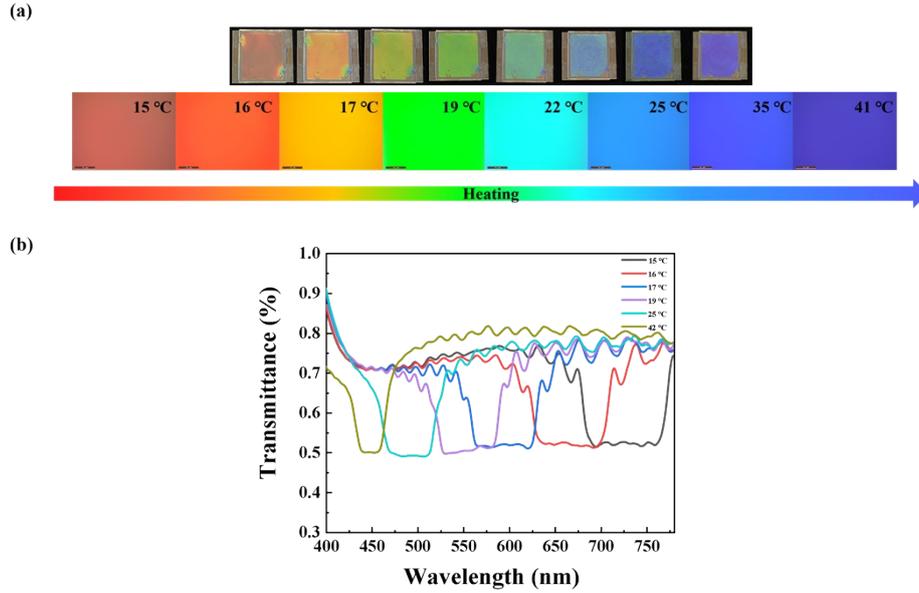


Fig. S2 (a) The optical microscope OM images of the CLC mixture at different temperatures in reflection mode. (b) Transmission spectra of CLC mixture at different temperatures.

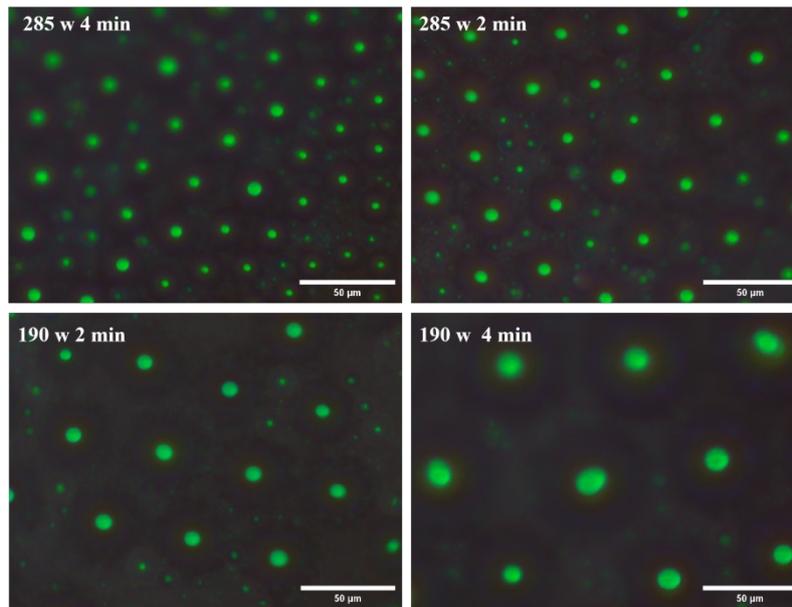


Fig. S3 CLCMCs with varying particle sizes (<math><20\ \mu\text{m}</math>, $20\text{--}30\ \mu\text{m}$, $30\text{--}40\ \mu\text{m}$, $40\text{--}70\ \mu\text{m}$) prepared under different ultrasonic power and time settings.

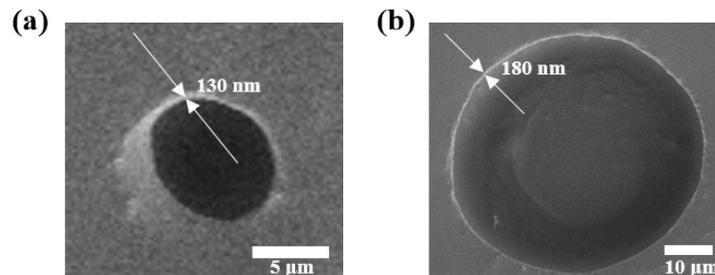


Fig. S4 SEM image of the cross-section of CLCMCs. (a) The thickness of the smaller CLCMCs about 130 nm and (b) the thickness of the larger CLCMCs about 180 nm.

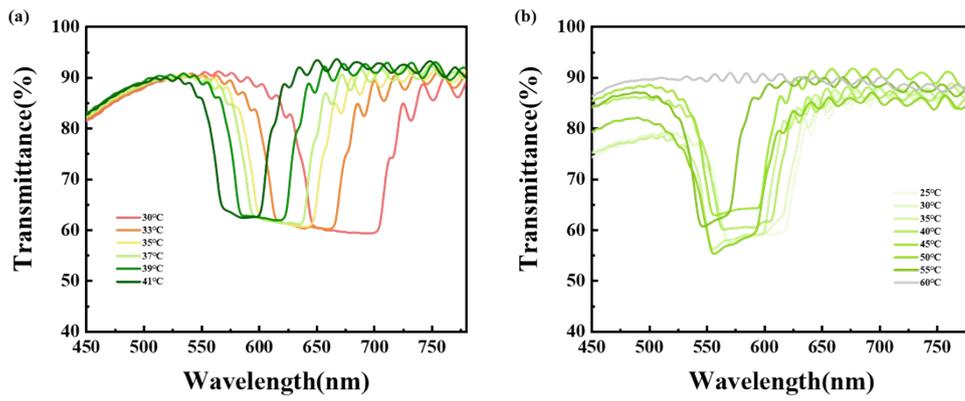


Fig. S5 The transmittance-temperature curves for (a) the E7/S811 (75/25) and (b) the SLC1717/S811 (73/27) CLC systems.