Computer simulations of a twist bend nematic (N_{TB}): a coarse-grained simulation of the phase behaviour of the liquid crystal dimer CB7CB.

Electronic Supplementary Information.

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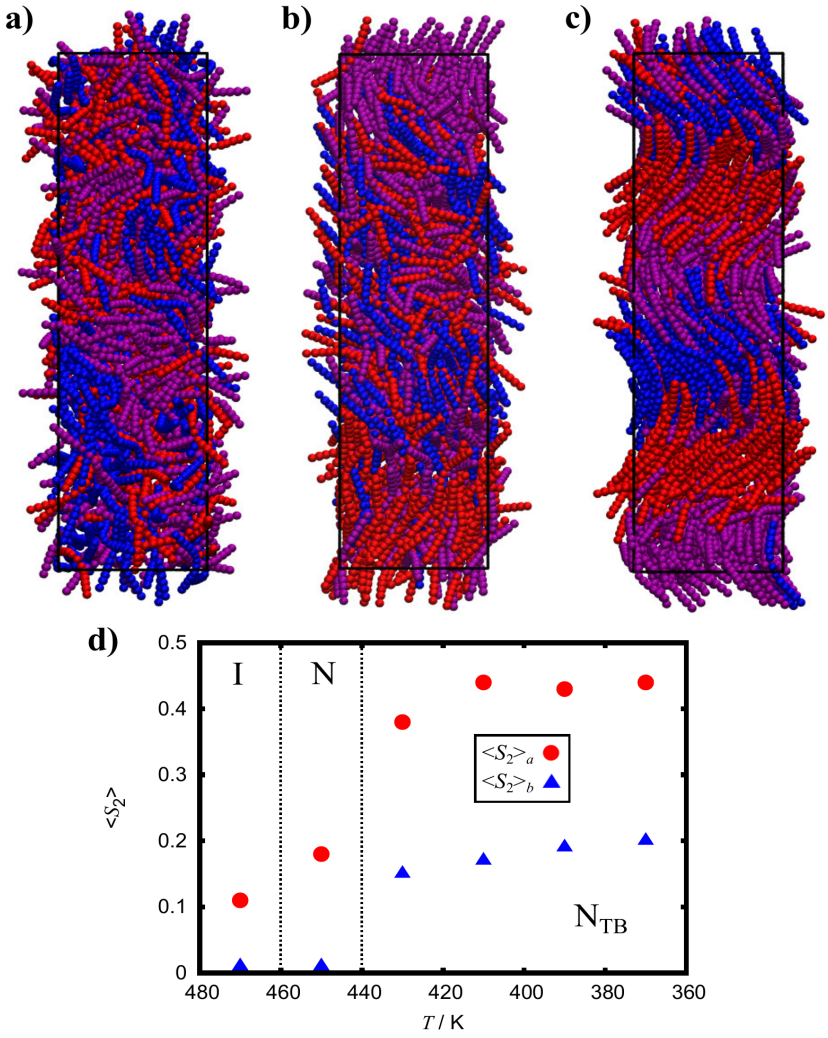

Figure S1: Simulation snapshots for 512 molecules of the FM CG model, obtained via cooling from an isotropic liquid. Results show: (a) the initial I phase at 470 K, (b) the N phase at 450 K, (c) the N_{TB} phase at 370 K, (d) the average orientational order parameter, $\langle S_2 \rangle$, for unit vectors $\hat{\mathbf{a}}$ and $\hat{\mathbf{b}}$ obtained from a cooling run starting in the I phase between the temperatures 470–370 K.

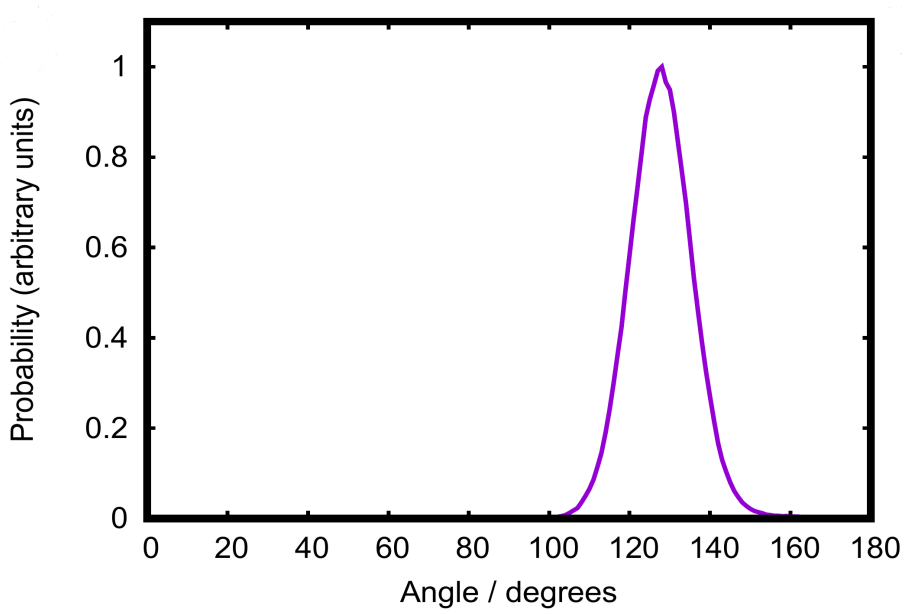

Figure S2: Bend angle distribution function calculated from the angle between rigid mesogenic units. Simulations taken from the bulk phase simulation of the FM CG model at 370 K.