Supporting Information

Helical Supramolecular Aggregates, Mesoscopic Organisation and Nanofibers of a Perylenebisimide - Chiral Surfactant Complex via Ionic Self-Assembly

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Table S1. Max-solubility of the complex PTCDI-BDP in different solvent at 25 °C.

solvent	**Solubility (mg.mL^{-1})**
Methanol	5
Ethanol	5
Chloroform	1
Dichloromethane	0.5
1, 2-Dichloroethane	0.2
THF	0.1

Table S2. Proposed assignment of the observed SAXS reflections:

Indexation	s (obs)	s (calc)
01	0.247	0.247
10	0.360	0.360
11	0.446	0.438
20	0.500	0.496

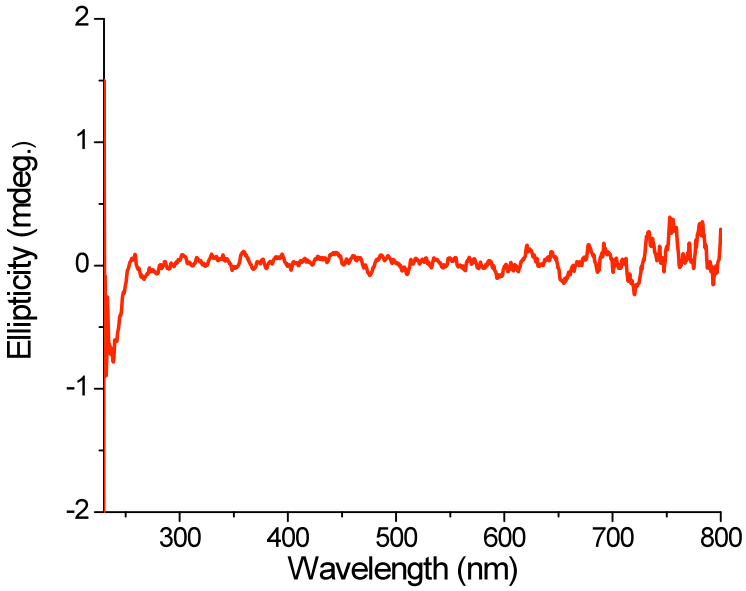

Fig. S1. CD spectrum of the chiral surfactant BDP in chloroform solution (0.1 mg.mL^{-1}).

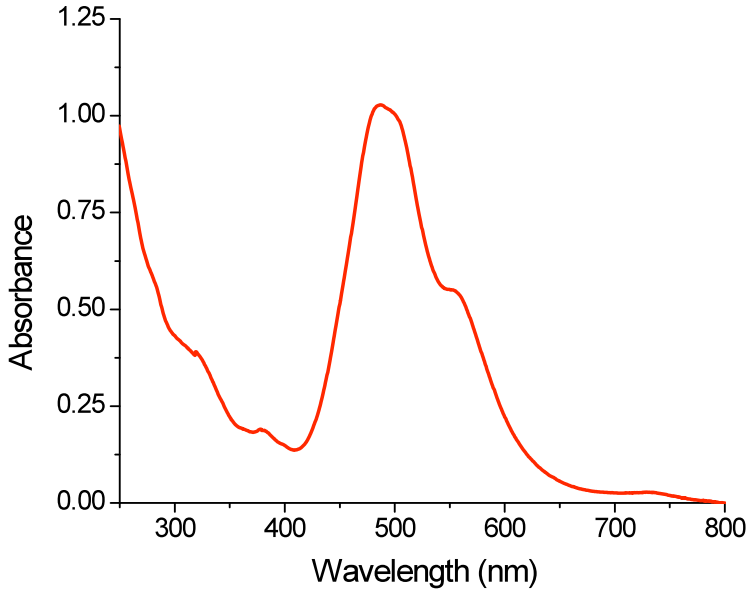

Fig. S 2. UV-Vis spectrum of PTCDI-BDP film obtained from THF solution.

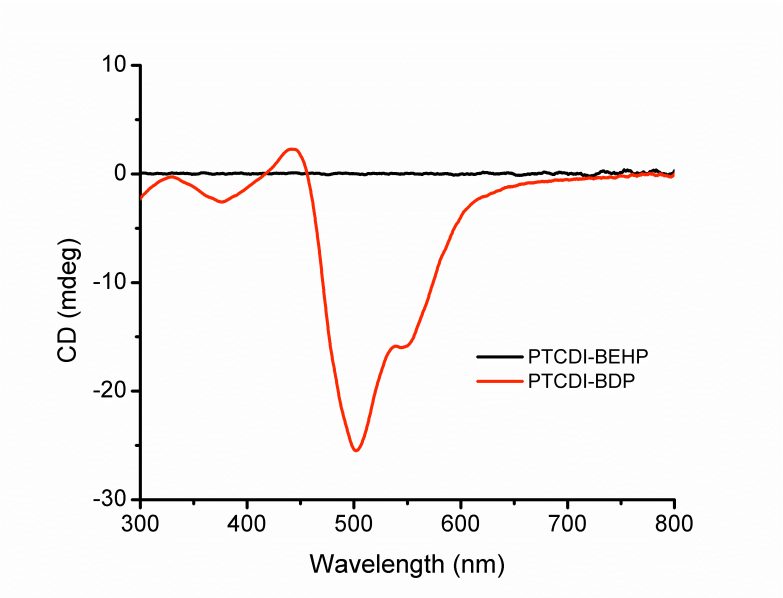

Fig. S3. CD spectra of films of the complex of PTCDI with chiral phosphate surfactant BDP and archiral phosphate surfactant bis(2-ethylhexyl) phosphate (BEHP). PTCDI-BEHP showed no CD peaks, while PTCDI-BDP film obtained from THF solution showed a bisignated signal

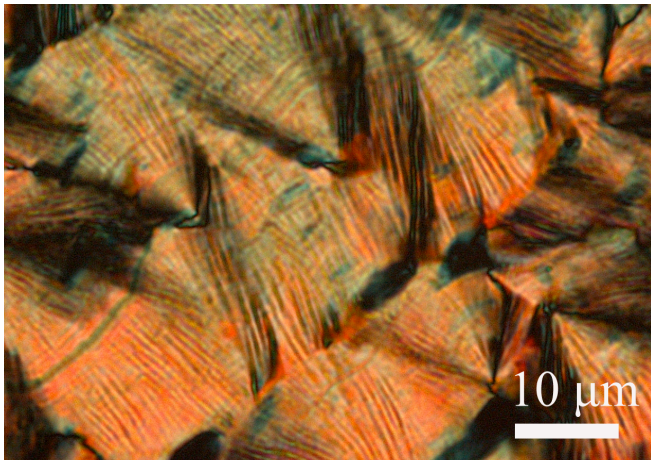

Fig. S4. Typical texture of the complex film cast from THF, as observed in a polarized microscope (crossed polarizers)

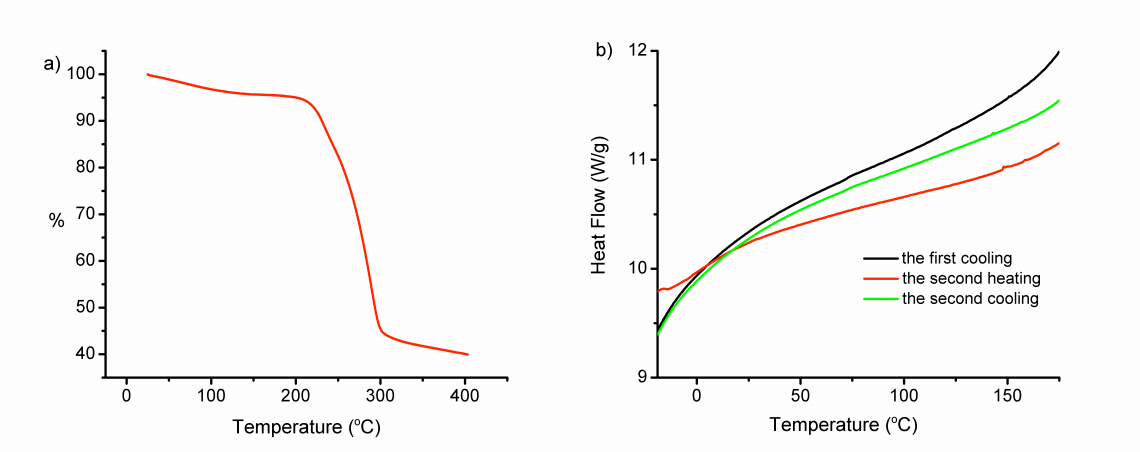

Fig. S5. a) TGA curve of the PTCDI-BDP complex. Weight loss of H_2O at about 100 °C is observed. Degradation temperature is ca. 220°C; b) DSC curve of the PTCDI-BDP complex.