Supplementary Material

**Interfacial properties of morpholine-2,5-dione based oligodepsipeptides and multiblock copolymers**

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Figure S1: 1 H NMR of the OCL-OIBMD multiblock copolymer. The OCL/OIBMD ratio was calculated from the integrated signal ratios at : δ = 0.80-0.90 ppm and : δ = 1:23 to 1:37 ppm.

1 H NMR (500 MHz, DMSO): OIBMD Block: δ = 0.80-0.90 ppm (2 d, 6H, CH 3 8 and 9), 1.45-1.80 ppm (m, 3H, CH and CH 2), 4:30 to 4:50 ppm (CH), 4.50-4.73 ppm (AB-system, AB J = 14.6 Hz, 2H, CH 2, isot.), 8:30 to 8:40 ppm (d, 3 J = 7.7 Hz 1H, NH); Starter: δ = 3.82-3.90 ppm (d, 3 J = 5.7 Hz, 4H, CH 2); OCL Block: δ = 1:23 to 1:37 ppm (m, 2H, CH2), 1.46-1.71 ppm (m, 4H, CH 2, overlapped with OIBMD block), 2:23 to 2:30 ppm (t, 3 J = 7.3 Hz 2H, CH2), 3.94-4.01 ppm (t, 3 J = 6.6 Hz 2H, CH 2); Starter: δ = 3.57-3.62 ppm (m, 4H, CH 2) and 4:08 to 4:13 ppm (m, CH 2); TMDI: δ = 0.76-0.93 ppm (m, CH 3, overlapped with OIBMD block), 1:05 to 1:19 ppm (m, CH 2 and CH), 2.68-3.02 ppm (m, CH 2).



Figure S2: Compression-expansion cycles of OIBMD Langmuir films



Figure S3: Surface pressure relaxation of OMMD at constant area