**Supporting Information:** 

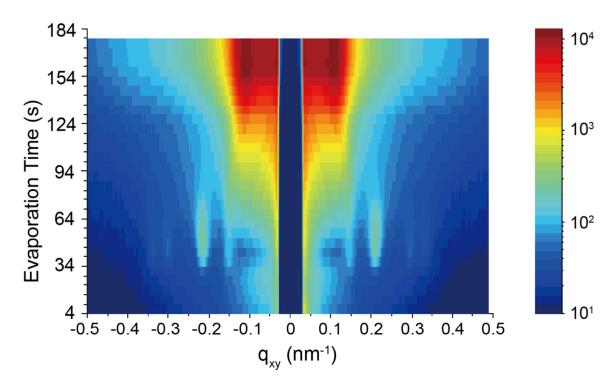
In Situ Study of Evaporation Induced SurfaceStructure Evolution in Asymmetric TriblockTerpolymer Membranes

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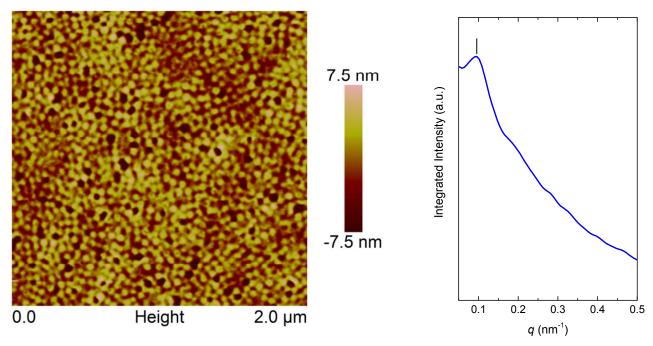
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**Fig. S1** Time resolved GISAXS in plane projections of the ISV91 film from 4 s to 178 s evaporation at 6 s time intervals. Each horizontal slice is an intensity map of the in plane projections at the particular evaporation time.



**Fig. S2.** AFM image of the dried ISV91 film (after one month drying in ambient) (left) and the corresponding FFT analysis (right) using Image J. The FFT only shows one peak with position  $q*=0.0957 \text{ nm}^{-1}$ . This suggests lack of long-range order in the completely dried film structure.