

Diblock copolymer membranes investigated by single particle tracking

Chandrashekara R. Haramagatti[†], Felix Schacher^{‡^x}, Axel H. E. Müller[‡], and Jürgen Köhler^{*,†}

[†] Experimental Physics IV and Bayreuth Institute for Macromolecular Research (BIMF), University of Bayreuth, D-95440, Bayreuth, Germany

[‡] Macromolecular Chemistry II and Bayreuth Institute for Macromolecular Research (BIMF), University of Bayreuth, D-95440, Bayreuth, Germany

^x Present address: Institute of Organic and Macromolecular Chemistry, Friedrich Schiller University Jena, D-07743 Jena, Germany

Movie 1: The movie shows the confined diffusion of an individual polystyrene bead within a domain of the diblock copolymer membrane. The trajectory corresponds to fig.3a of the main text.

Movie 2: The movie shows the confined diffusion of two individual polystyrene beads within two adjacent domains of the diblock copolymer membrane. The bead on the left hand side leaves the initial domain, indicated by a change of the colour of the trajectory from blue to green. This trajectory corresponds to fig.3b of the main text. The bead on the right hand side stays within its domain and the trajectory is given in magenta.

Fig. S1

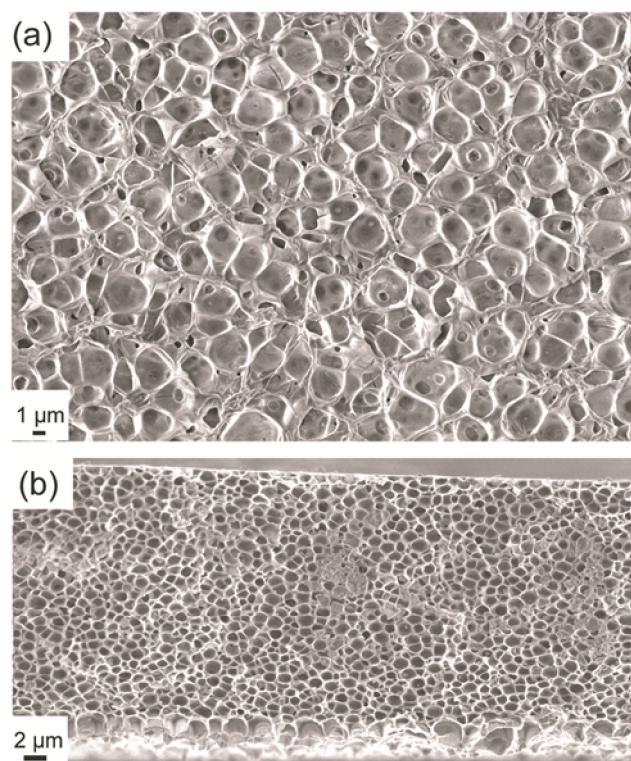


Fig. S1: SEM images of the membrane a) bottom side, b) cross section. The scale bars correspond to 1 μm and 2 μm , respectively.