Spontaneous formation of nanometer scale tubular vesicles in aqueous mixtures of lipid and block copolymer amphiphiles

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\textbf{Supplementary Figure Legends}

\textbf{Supplementary Figure S1.} Turbidity of vesicle preparations. (a) Optical photographs of the spontaneously formed vesicle suspension, prior to extrusion, showing the difference in turbidity depending on vesicle composition. Vesicles were rehydrated with PBS (top), or labeled with 0.5\% Rho-PE (Bottom). (b) Turbidity (absorbance at 630 nm) as a function of PBD-PEO molar fraction for the pre-extruded 5 mg mL\textsuperscript{-1} PBD-PEO/POPC hybrid vesicles sample.

\textbf{Supplementary Figure S2.} Cryo-EM images of nanostructures formed from thin film rehydration of (a) POPC (b-d) POPC/PBD-PEO (75:25, 50:50, 25:75), and (e) PBD-PEO. Tubular structures were observed in POPC/PBD-PEO mixtures (b-d) with the highest concentration at a mixture of 50:50. Dark regions represent the carbon support film. Light regions vitrified ice.

\textbf{Supplementary Video 1.} Cryo-EM tilt series of POPC/PBD-PEO (50:50).

\textbf{Supplementary Video 2.} 3D reconstruction of the cylindrical vesicles derived from tomograms of vitrified POPC/PBD-PEO (50:50).