Supplementary Information

Delayed nucleation in lipid particles

Guy Jacoby,[a] Irina Portnaya,[b] Dganit Danino,[b] Haim Diamant[c] and Roy Beck*[a]

[a] The Raymond and Beverly Sackler School of Physics and Astronomy, Tel Aviv University, Ramat Aviv, Tel Aviv 6997801, Israel. E-mail: roy@tauex.tau.ac.il
[b] Department of Chemical Engineering, Technion-Israel Institute of Technology, Haifa 3200003, Israel.
[c] The Raymond and Beverly School of Chemistry, Tel Aviv University, Tel Aviv 6997801, Israel.

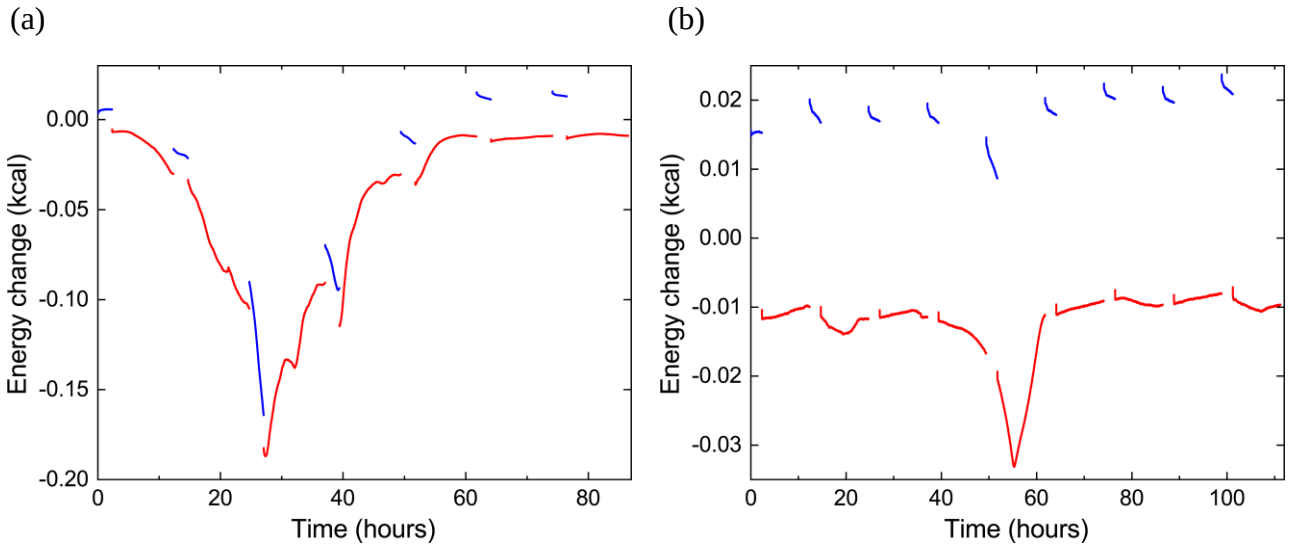

Figure S1. Raw data of time-resolved quasi-isothermal DSC measurements of two samples: (a) pure DLPE, (b) 90:10 DLPE:DLPG (mole %). The red curves are heating scans and the blue curves are cooling scans. There is a mismatch between cooling and heating scan data possibly due to the different scanning rates (see experimental section).

(a) (b)

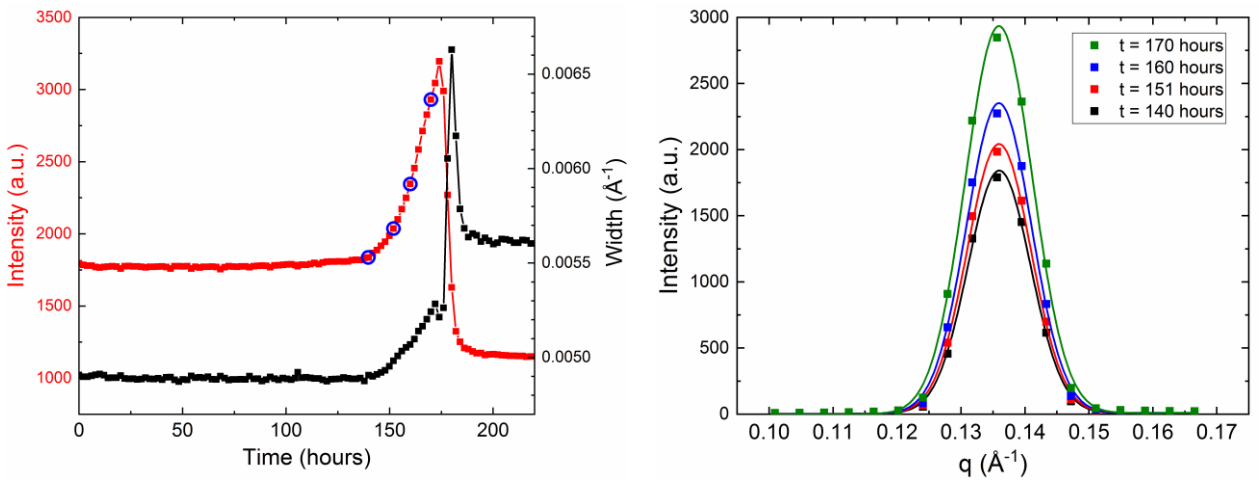

Figure S2. (a) The amplitude and width of the Gaussian fit to the (001) lamellar scattering peak as a function time. Data shown is from the bottom of the horizontally held capillary (coordinate x = 0,). At t = 140 hours begins a significant increase of the amplitude, which ends with a sharp drop of the intensity during the phase-transition. Notably, the width of the gaussian also slightly increases before the transition. Blue circles mark the times at which the scattering peak and its fit are plotted in (b) for clarity.