Supporting Information for:

Tuning the Glass Transition Temperature of a Core-Forming Block During Polymerization-Induced Self-Assembly: Statistical Copolymerization of Lauryl Methacrylate with Methyl Methacrylate Provides Access to Spheres, Worms and Vesicles

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Table of Contents

Experimental Section
Figure S1. ¹ H NMR spectra for targeting PLMA ₂₂ -P(0.9MMA- <i>stat</i> -0.1LMA) ₃₀₀ composition at 20% w/w solids in mineral oil
Figure S2. DSC curve of PLMA ₂₂ precursor
Figure S3. Representative TEM image obtained for the PLMA ₂₂ -P(0.9MMA- <i>stat</i> -0.1LMA) ₂₈₂ vesicles prepared during the <i>in situ</i> ¹ H NMR kinetic experimentS8
Figure S4. TEM, GPC and NMR data obtained for the PLMA ₂₂ -PMMA ₂₉₁ block copolymer after heating with excess LMA at 115 °C for 17 h
Table S1. Summary of data obtained for a series of PLMA22-P(MMA-stat-LMA)y nano- objects prepared at 115 °C S10
Table S2. Summary of data obtained for a series of PLMA41-P(0.9MMA-stat-0.1LMA)ynano-objects prepared at 115 °CS10
Table S3. Summary table of SAXS fitting parameters S11
Figure S5. Representative TEM image recorded for the 0.1% w/w PLMA ₂₂ -P(0.9MMA- <i>stat</i> -0.1LMA) ₂₂₈ dispersion after heating to 140 °C for the DLS studyS11
Figure S6. Representative TEM image recorded for PLMA ₂₂ -P(0.9MMA- <i>stat</i> -0.1LMA) ₂₂₈ diblock copolymer after heating the 20% w/w dispersion to 150 °C
Table S4. Summary of DLS data obtained for the worm-to-sphere transition of PLMA22- P(0.9MMA-co-0.1LMA)113 worms and for the vesicle-to-worm transition of the PLMA22- P(0.9MMA-co-0.1LMA)228 vesicles
References

Experimental Section

Materials

Methyl methacrylate (MMA, 99%) was purchased from Alfa Aesar (Germany), passed through basic alumina to remove its inhibitor and then stored at -20 °C prior to use. Lauryl methacrylate (LMA), dicumyl peroxide (DCP), CDCl₃, ruthenium(IV) oxide, sodium periodate and *n*-dodecane were purchased from Merck (UK) and used as received. 2,2'-Azoisobutyronitrile (AIBN) was obtained from Molekula (UK) and *tert*-butyl peroxy-2-ethylhexanoate (T21s) was purchased from AkzoNobel (The Netherlands). CD₂Cl₂ was purchased from Goss Scientific (UK). Tetrahydrofuran was obtained from VWR Chemicals (UK). Methanol and toluene were purchased from Fisher Scientific (UK). 4-Cyano-4(dodecylthiocarbonothioylthio)pentanoate (MCDP) and Group III hydroisomerized mineral oil (viscosity = 4.3 cSt at 100 °C) were kindly provided by The Lubrizol Corporation Ltd. (Hazelwood, Derbyshire, UK).

Synthesis of PLMA precursors via RAFT solution polymerization in toluene

PLMA₂₂ and PLMA₄₁ precursors were synthesized at 50% w/w solids using the previously reported synthesis protocol.¹ A typical synthesis of PLMA₂₂ was conducted as follows. LMA (48.7 g; 191.5 mmol), MCDP (4.00 g; 9.6 mmol; target DP = 20), AIBN (315 mg; 1.9 mmol; MCDP/AIBN molar ratio = 5.0) and toluene (53.0 g) were weighed into a 250 mL round-bottomed flask. The sealed flask was purged with nitrogen for 30 min and immersed in a preheated oil bath at 80 °C. The reaction solution was stirred continuously and the ensuing polymerization was quenched after 4.5 h by exposing the reaction solution to air and cooling the flask to room temperature. A final LMA conversion of 91% was determined by ¹H NMR spectroscopy. The crude polymer was purified by three consecutive precipitations into a tenfold excess of methanol (with redissolution in THF after each precipitation). The mean DP of this PLMA precursor was calculated to be 22 by using ¹H NMR spectroscopy to compare the

three methyl protons assigned to the methyl ester end-group at 3.7 ppm to the two oxymethylene protons attributed to PLMA at 3.80–4.20 ppm. THF GPC analysis using a refractive index detector and a series of near-monodisperse poly(methyl methacrylate) calibration standards indicated an M_n of 6 000 g mol⁻¹ and an M_w/M_n of 1.13. The theoretical M_n of the PLMA₂₂ precursor is 6014.71 g mol⁻¹. Thus, despite the large difference in molar mass between LMA and MMA, a remarkably small calibration error is incurred when using PMMA standards to analyse PLMA homopolymers by THF GPC. This suggests that minimal calibration errors should be incurred when analysing the PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)_x diblock copolymers reported in the present study.

Synthesis of poly(lauryl methacrylate)-poly(methyl methacrylate-*stat*-lauryl methacrylate) (PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₂₈₂) diblock copolymer nanoparticles *via* RAFT dispersion copolymerization of LMA with MMA in mineral oil

The following example is representative for targeting PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₃₀₀ nanoparticles at 20% w/w solids. PLMA₂₂ precursor (0.20 g; 33.25 µmol), LMA monomer (0.25 g; 997.55 µmol), DCP initiator (3.0 mg; 11.08 µmol) and mineral oil (5.42 g) were weighed into a glass vial and purged with nitrogen for 30 min. MMA monomer (0.96 mL; 8.98 mmol) was degassed separately then added to the reaction mixture *via* syringe. The sealed vial was immersed in a preheated oil bath at 115 °C and the reaction mixture was magnetically stirred for 17 h. ¹H NMR analysis indicated an overall comonomer conversion of 94% by comparing the integrated vinyl signals observed for the final reaction mixture to the methoxy signals assigned to the MMA and PMMA at 3.50-3.79 ppm while allowing for the initial [MMA]/[LMA] molar ratio of 9:1 (see **Figure S1**). An MMA conversion of 96% was determined by comparing the integrated methyl signal assigned to MMA monomer at 3.75–3.79 ppm to that of the copolymer at 3.50–3.72 ppm at the end of the copolymerization. An

LMA conversion of 76% was determined by comparing the integrated methylene signal for LMA monomer at 4.12–4.19 ppm to the combined methoxy signal for both MMA and PMMA according to the initial [MMA]/[LMA] molar ratio. THF GPC analysis indicated an Mn of 34 800 g mol⁻¹ and an $M_{\rm w}/M_{\rm n}$ of 1.25. To construct a pseudo-phase diagram for PLMA_x-P(0.9MMA-stat-0.1LMA)_y nano-objects, a range of diblock copolymer compositions were targeted using PLMA₂₂ and PLMA₄₁ precursors in mineral oil at 20% w/w solids (see Table S1 and S2). In each case, the same mass of PLMA_x precursor was employed and the [0.9MMAstat-0.1LMA]/[PLMA_x] molar ratio and the volume of mineral oil were adjusted accordingly. Since these copolymerizations were performed at 115 °C, the round-bottomed flask was sealed with a plastic cap rather than a rubber septum in order to prevent evaporative loss of MMA monomer (boiling point = 101 °C). It is important to note that conducting polymerizations above the boiling point of the MMA monomer can be potentially hazardous: scale-up syntheses of these nanoparticles would most likely require a pressurized reactor. PLMA22-PMMA300 and PLMA22-P(0.9MMA-stat-0.1LMA)300 diblock copolymers were also targeted at 90 °C using T21s initiator (dissolved at 10% v/v in mineral oil; $[T21s]/[PLMA_{22}] = 3.0$) at 20% w/w solids in mineral oil.

¹H NMR Spectroscopy

¹H NMR spectra were recorded in either CD₂Cl₂ or CDCl₃ using a 400 MHz Bruker Avance spectrometer. Typically, 64 scans were averaged per spectrum. *In situ* ¹H NMR spectra were recorded using the same spectrometer to study the kinetics of the synthesis of P(0.9MMA-*stat*-0.1LMA)₂₈₂ vesicles at 20% w/w solids in mineral oil. A 0.20 mL aliquot of the reaction mixture was transferred into an NMR tube equipped with a J-Young's tap under an inert nitrogen atmosphere. A capillary tube containing 0.17 M benzylamine dissolved in d₆-DMSO was flame-sealed and used as an external standard (and also a solvent lock). A reference spectrum was recorded at 20 °C prior to heating the reaction mixture to 115 °C. Spectra were

acquired in 16 transients using a 30° excitation pulse and a delay time of 1 s over a spectral window of 8 kHz with 64 k data points and recorded approximately every 10 min for 2.5 h.

Gel Permeation Chromatography (GPC)

Molecular weight distributions (MWDs) were assessed by GPC using THF as an eluent. The GPC system was equipped with two 5 μ m (30 cm) Mixed C columns and a WellChrom K-2301 refractive index detector operating at 950 ± 30 nm. The THF mobile phase contained 2.0% v/v triethylamine and 0.05% w/v butylhydroxytoluene (BHT) and the flow rate was fixed at 1.0 ml min⁻¹. A series of twelve near-monodisperse poly(methyl methacrylate) standards (M_p values ranging from 800 to 2 200 000 g mol⁻¹) were used for column calibration in combination with a refractive index detector.

Dynamic Light Scattering (DLS)

DLS studies were performed using a Zetasizer Nano ZS instrument (Malvern Instruments, UK) at a fixed scattering angle of 173°. Copolymer dispersions were diluted in *n*-dodecane (0.10% w/w) prior to light scattering studies at 20 °C. The intensity-average diameter and polydispersity of the nanoparticles were calculated by cumulants analysis of the experimental correlation function using Dispersion Technology Software version 6.20. Data were averaged over ten runs each of thirty seconds duration. It is emphasized that DLS assumes a spherical morphology. Thus, the DLS diameter calculated for anisotropic nanoparticles such as worms is a 'sphere-equivalent' value that indicates neither the worm length nor the worm width. Nevertheless, DLS can be used to monitor a thermally-induced worm-to-sphere transition by determining the reduction in the apparent diameter as a function of temperature.²

Transmission Electron Microscopy (TEM)

TEM studies were conducted using a Philips CM 100 instrument operating at 100 kV and equipped with a Gatan 1k CCD camera. A single droplet of a 0.10% w/w copolymer dispersion was placed onto a carbon-coated copper grid and allowed to dry, prior to exposure to ruthenium(VIII) oxide vapor for 7 min at 20 °C.³ This heavy metal compound acts as a positive stain for the core-forming PMMA block to improve contrast. The ruthenium(VIII) oxide was prepared as follows: ruthenium(IV) oxide (0.30 g) was added to water (50 g) to form a black slurry; addition of sodium periodate (2.0 g) with continuous stirring produced a yellow solution of ruthenium(VIII) oxide within 1 min at 20 °C.

Small-angle X-ray scattering (SAXS)

SAXS patterns were collected at a synchrotron source (ESRF, beamline ID02, Grenoble, France; experiment number SC-5109) using a monochromatic X-ray radiation (wavelength $\lambda = 0.0995$ nm, with q ranging from 0.0021 to 2.0 nm⁻¹, where $q = (4\pi/\lambda)$. sin θ is the length of the scattering vector and θ is the one-half of the scattering angle) and a Ravonix MX-170HS CCD detector. A glass capillary of 2 mm diameter was used as a sample holder. Scattering data were reduced using standard routines from the beamline⁴ and were further analyzed using Irena SAS macros for Igor Pro.⁵

Differential scanning calorimetry (DSC)

Measurements were performed using a TA DSC25 Discovery series instrument operating from -90 to 180 °C at a rate of 5 °C min⁻¹ using aluminum T_{zero} pans and T_{zero} hermetic lids for PLMA₂₂, PLMA₂₂-PMMA₁₉₂, PLMA₂₂-P(0.95MMA-*stat*-0.05LMA)₁₈₈, PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₁₈₈ and PLMA₂₂-P(0.8MMA-*stat*-0.2LMA)₁₈₆. Instrument calibration was performed using an indium standard. Purified copolymer powders were obtained after three consecutive precipitations of the as-synthesized diblock copolymer

dispersion into a ten-fold excess of methanol (with redissolution in THF after each precipitation), followed by isolation *via* filtration and drying under vacuum for 24 h. For DSC analysis, the PLMA₂₂ precursor and each diblock copolymer were subjected to two heating/cooling cycles: the first cycle ensured removal of residual organic solvent, and the glass transition temperature was determined during the second cycle.

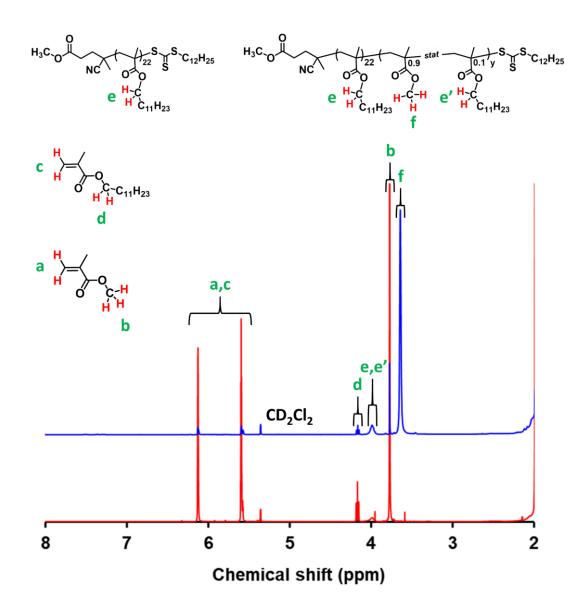


Figure S1. Assigned ¹H NMR spectra recorded in CD₂Cl₂ when targeting PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₃₀₀ at 20% w/w solids in mineral oil. Initial reaction mixture (red spectrum) and final reaction mixture after 17 h at 115 °C (blue spectrum). The overall comonomer conversion was determined to be 94% while the final MMA and LMA conversions were 96% and 76%, respectively.

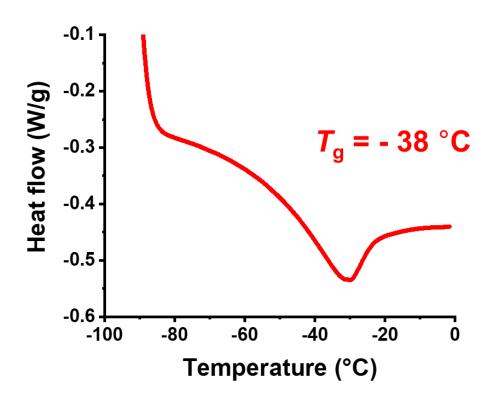


Figure S2. DSC curve recorded for the PLMA₂₂ precursor, for which the T_g was determined to be -38 °C.

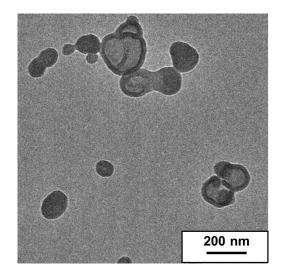


Figure S3. Representative TEM image obtained for the final PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₂₈₂ vesicles after 3 h when targeting 20% w/w solids in mineral oil at 115 °C during the *in situ* ¹H NMR kinetic experiment.

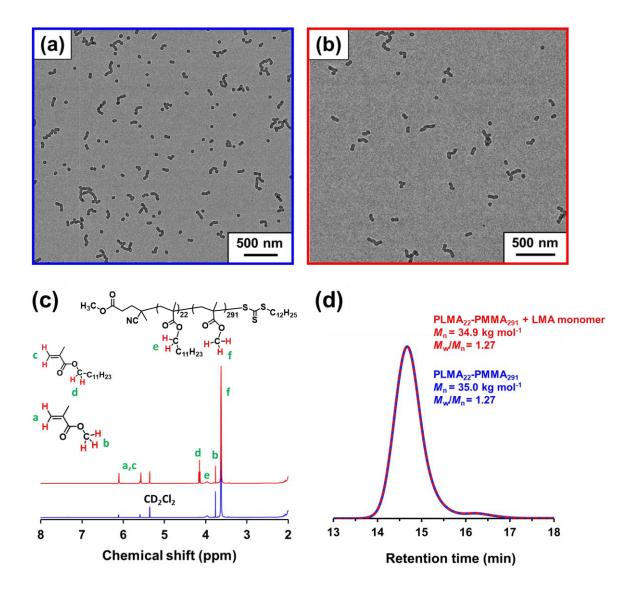


Figure S4. Representative TEM images obtained for (**a**) PLMA₂₂-PMMA₂₉₁ nano-objects prepared at 20% w/w solids in mineral oil at 115 °C and (**b**) the same diblock copolymer after heating the 20% w/w dispersion at 115 °C for 17 h in the presence of a large excess of LMA monomer ([LMA]/[PLMA₂₂-PMMA₂₉₁] molar ratio = 50). (**c**) Assigned ¹H NMR spectra recorded in CD₂Cl₂ for the initial PLMA₂₂-PMMA₂₉₁ diblock copolymer (blue spectrum) and that obtained after thermal annealing at 115 °C for 17 h (red spectrum). (**d**) GPC traces recorded using a refractive index detector (and expressed relative to a series of near-monodisperse poly(methyl methacrylate) calibration standards) for the initial PLMA₂₂-PMMA₂₉₁ diblock copolymer (blue curve) and the copolymer obtained after thermal annealing at 115 °C for 17 h (red data). Clearly, no LMA polymerization occurs during thermal annealing.

Table S1. Summary of the overall comonomer conversion (determined by ¹H NMR analysis), GPC, DLS and TEM data obtained for a series of PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)_y nano-objects prepared at 20% w/w solids in mineral oil at 115 °C. The PLMA₂₂ precursor block is also included as a reference.

	Comonomer	THF GPC		DLS		TEM	
Target Composition	Conversion (%)	<i>M</i> _n (g mol ⁻¹)	$M_{ m w}/M_{ m n}$	D_h (nm)	PDI	Morphology	
PLMA ₂₂ precursor	-	6 000	1.13	-	-	-	
PLMA22-P(0.9MMA-stat-0.1LMA)50	94	13 800	1.16	24	0.01	Spheres	
PLMA22-P(0.9MMA-stat-0.1LMA)70	94	14 800	1.17	29	0.02	Spheres	
PLMA ₂₂ -P(0.9MMA-stat-0.1LMA) ₈₅	94	16 700	1.18	54	0.14	Spheres and Worms	
PLMA22-P(0.9MMA-stat-0.1LMA)100	94	17 200	1.19	82	0.15	Spheres and Worms	
PLMA ₂₂ -P(0.9MMA-stat-0.1LMA) ₁₂₀	94	19 200	1.21	229	0.45	Worms	
PLMA ₂₂ -P(0.9MMA-stat-0.1LMA) ₁₄₀	95	21 800	1.20	269	0.44	Worms	
PLMA22-P(0.9MMA-stat-0.1LMA)160	95	25 200	1.20	2169	0.80	Worms and Vesicles	
PLMA22-P(0.9MMA-stat-0.1LMA)200	94	26 400	1.25	142	0.14	Worms and Vesicles	
PLMA22-P(0.9MMA-stat-0.1LMA)240	95	31 000	1.22	140	0.12	Vesicles	
PLMA22-P(0.9MMA-stat-0.1LMA)260	95	34 000	1.25	141	0.11	Vesicles	
PLMA22-P(0.9MMA-stat-0.1LMA)300	94	34 800	1.25	148	0.08	Vesicles	
PLMA22-P(0.95MMA-stat-0.05LMA)200	94	25 000	1.20	54	0.04	Spheres	
PLMA22-P(0.8MMA-stat-0.2LMA)200	93	29 400	1.22	2140	0.32	Large compound vesicles	

Table S2. Summary of the overall comonomer conversion (determined by ¹H NMR analysis), GPC, DLS and TEM data obtained for a series of PLMA₄₁-P(0.9MMA-*stat*-0.1LMA)_y nano-objects prepared at 20% w/w solids in mineral oil at 115 °C. The PLMA₄₁ precursor block is also included as a reference.

	Comonomer	er THF GPC		DLS		TEM	
Target Composition	Conversion (%)	<i>M</i> _n (g mol ⁻¹)	$M_{ m w}/M_{ m n}$	D_h (nm)	PDI	TEM Morphology	
PLMA ₄₁ precursor	-	11 300	1.12	-	-	-	
PLMA ₄₁ -P(0.9MMA-stat-0.1LMA) ₃₀	94	17 400	1.17	27	0.04	Spheres	
PLMA ₄₁ -P(0.9MMA-stat-0.1LMA) ₅₀	94	18 900	1.19	29	0.08	Spheres	
PLMA ₄₁ -P(0.9MMA-stat-0.1LMA) ₇₀	94	20 000	1.21	31	0.04	Spheres	
PLMA ₄₁ -P(0.9MMA-stat-0.1LMA) ₁₀₀	94	21 700	1.21	34	0.10	Spheres	
PLMA41-P(0.9MMA-stat-0.1LMA)150	94	27 500	1.30	39	0.06	Spheres	
PLMA ₄₁ -P(0.9MMA-stat-0.1LMA) ₂₀₀	94	32 900	1.35	44	0.04	Spheres	
PLMA ₄₁ -P(0.9MMA-stat-0.1LMA) ₂₅₀	94	37 400	1.33	48	0.02	Spheres	
PLMA ₄₁ -P(0.9MMA-stat-0.1LMA) ₃₀₀	94	40 000	1.35	52	0.03	Spheres	

Table S3. Summary of the structural parameters obtained from fitting SAXS patterns recorded for a series of PLMA_x-P(0.9MMA-*stat*-0.1LMA)_y nano-objects using a spherical micelle⁶, a worm-like micelle model⁶ or a vesicle model⁷. D_{sphere} is the overall sphere diameter such that $D_{\text{sphere}} = 2R_{\text{s}} + 4R_{\text{g}}$, where R_{s} is the mean core radius and R_{g} is the radius of gyration of the stabilizer chains. T_{worm} is the overall worm thickness ($T_{\text{worm}} = 2R_{\text{wc}} + 4R_{\text{g}}$, where R_{wc} is the mean worm core radius) and L_{worm} is the mean worm contour length. D_{vesicle} is the overall vesicle diameter ($D_{\text{vesicle}} = 2R_{\text{m}} + T_{\text{membrane}} + 4R_{\text{g}}$, where R_{m} is the distance from the centre of the vesicle to the centre of the vesicle membrane, and T_{membrane} is the vesicle membrane thickness). N_{agg} is the mean aggregation number (i.e. the mean number of copolymer chains per nano-object).

Block Copolymer	Nanoparticle Morphology	D _{sphere} (nm)	T _{worm} (nm)	L _{worm} (nm)	D _{vesicle} (nm)	T _{membrace} (nm)	$N_{ m agg}$
PLMA ₂₂ -P(0.9MMA-stat-0.1LMA) ₄₇	Spheres	18.9 ± 1.9	-	-	-	-	201
PLMA ₂₂ -P(0.9MMA-stat-0.1LMA) ₁₁₃	(Branched) Worms	-	20.0 ± 2.4	120	-	-	337
PLMA ₂₂ -P(0.9MMA-stat-0.1LMA) ₂₄₇	Vesicles	-	-	-	172 ± 126	15.4 ± 1.6	25,600
PLMA ₄₁ -P(0.9MMA-stat-0.1LMA) ₂₈	Spheres	19.8 ± 1.1	-	-	-	-	139
PLMA ₄₁ -P(0.9MMA-stat-0.1LMA) ₂₈₂	Spheres	43.0 ± 4.5	-	-	-	-	513

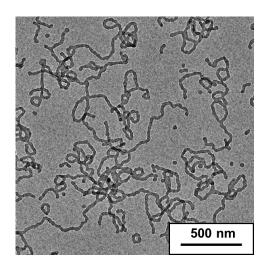


Figure S5. Representative TEM image obtained for the PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₂₂₈ worms that are formed after heating a 0.1% w/w dispersion of PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₂₂₈ vesicles (originally prepared in mineral oil but then diluted with *n*-dodecane) to 140 °C.

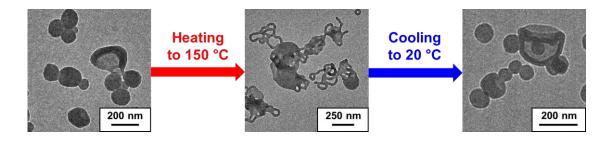


Figure S6. Representative TEM images recorded for the morphology transition exhibited by PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₂₂₈ vesicles prepared at 20% w/w solids in mineral oil. The initial copolymer dispersion was heated to 150 °C and equilibrated for 30 min at this temperature, prior to dilution with hot *n*-dodecane, cooling from 150 °C to 20 °C and ageing for 24 h at 20 °C.

Table S4. Summary of DLS data obtained for thermoresponsive PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₁₁₃ worms and PLMA₂₂-P(0.9MMA-*stat*-0.1LMA)₂₂₈ vesicles prepared at 20% w/w solids in mineral oil at 115 °C. The 20% w/w worm dispersion was heated to 150 °C, equilibrated for 1 h, then cooled to 20 °C and stored at this temperature for 24 h before DLS analysis. The vesicle dispersion was treated similarly, except that it was heated to 170 °C rather than 150 °C.

	Experimental	DI	LS	TEM Morphology	
Target Copolymer Composition	Conditions	D _h (nm)	PDI		
PLMA22-P(0.9MMA-stat-0.1LMA)113	Original	229	0.45	Worms	
PLMA22-P(0.9MMA-stat-0.1LMA)113	Heated to 150 °C	35	0.04	Spheres	
PLMA22-P(0.9MMA-stat-0.1LMA)113	Cooled to 20 °C	166	0.32	Worms	
PLMA22-P(0.9MMA-stat-0.1LMA)228	Original	140	0.12	Vesicles	
PLMA22-P(0.9MMA-stat-0.1LMA)228	Heated to 150 °C	104	0.16	Worms	
PLMA22-P(0.9MMA-stat-0.1LMA)228	Cooled to 20 °C	129	0.09	Vesicles	

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