

SUPPLEMENTARY INFORMATION

Mixing – demixing transition in polymer-grafted spherical nanoparticles

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Table indicates the values of  $\epsilon_{AB}$  for which phase separation occurs as a function of  $N_g$  and  $N$ .

Fig. 2 (Upper panel, D=1)				(Fig. 2 (lower panel, D= 4)			
# Ng	N	$\epsilon_{AB}$		# Ng	N	$\epsilon_{AB}$	
5	5	0.98		10	5	0.96	
5	10	0.98		10	10	0.90	
5	20	0.92		10	20	0.60	
5	40	0.90		10	40	0.60	
10	5	0.99		15	5	0.80	
10	10	0.99		15	10	0.85	
10	20	0.96		15	20	0.76	
10	40	0.90		15	40	0.78	
15	5	0.98		20	5	0.80	
15	10	0.96		20	10	0.90	
15	20	0.96		20	20	0.95	
15	40	0.80		20	40	0.95	
				25	5	0.82	
				25	10	0.90	
				25	20	0.90	
				25	40	0.96	
				30	5	0.80	
				30	10	0.95	
				30	20	0.92	
				30	40	0.97	
				35	5	0.80	
				35	10	0.84	
				35	20	0.86	
				35	40	0.90	
				40	5	0.80	
				40	10	0.84	
				40	20	0.80	
				40	40	0.70	