

Supplementary Data

Table S1: Single Surface Fitting Parameters

Solvent	dPS T (Å)	dPS SLD	P2VP T (Å)	P2VP		Q		Roughness (Å)		
				SLD	SLD	SLD	SLD	PS	Q-	P2VP
Air	131	6.5	145	1.8	4.2	4.2	2.6	11	5	3
h-Toluene	h_1 (Å)	$SLD(0)$	$SLD(h_1)$	$SLD(t_2)$	n_1	n_2				
Small	570	2.5	1.5	0.9	2	2	1.6	28	5	

Table S2: Opposing Symmetric Polymer Brush Fitting Parameters

Solvent	D(Å)	dPS		P2VP		SiO ₂		SiO ₂		SiO ₂		Roughness (Å)				
		T(Å)	SLD	T(Å)	SLD	T(Å)	SLD	T(Å)	SLD	PS	SiO ₂	SiO ₂ -P2VP	P2VP-PS			
Air	1110	120	6.4	130	1.90	2.10	10	3.50	5.65	2.4	65	15	4	2	4	2.5
h-Toluene	h_1 (Å)	h_2 (Å)	$SLD(0)$	$SLD(h_1)$	$SLD(h_2)$	n_1	n_2									
Small	933	329	430	2.88	2.16	1.7	2.7	2.0	120	1.60	2.10	15	3.51	5.76	2.1	45
Medium	969	329	430	2.81	1.99	1.7	2.5	2.0	120	1.60	2.10	13	3.54	5.68	2.4	45
Large	1000	330	480	2.74	1.86	1.6	2.4	2.3	120	1.60	2.10	14	3.54	5.69	2.5	45

Table S3: Opposing Asymmetric Polymer Brush Fitting Parameters

Solvent	T(Å)	dPS		P2VP ₁		P2VP ₂		SiO ₂		SiO ₂		Roughness (Å)							
		SLD	SLD	T(Å)	SLD	T(Å)	SLD	T(Å)	SLD	SLD	dPS	P2VP ₁ -hPS	P2VP ₂ -S ₂	PS-Air					
Air	120	6.4	6.4	130	1.90	130	1.90	10	5.70	5.60	2.3	80	15	15	2	2	4		
h-Toluene	h_1 (Å)	h_2 (Å)	$SLD(0)$	$SLD(h_1)$	$SLD(h_2)$	n_1	n_2												
Small	430	250	3.07	2.1	1.25	1.7	1.5	90	1.82	100	1.95	5.80	5.70	2.4	80	28	7	1	1
Medium	430	360	2.90	2.1	1.25	1.8	1.9	95	1.85	105	1.95	5.80	5.70	2.0	80	30	5	2	2
Large	525	400	2.83	1.8	1.25	1.5	1.7	90	1.80	107	1.95	5.80	5.70	3.4	80	30	1	3	2