

## List of tables

**Table 1.** Molecular weights of PNIPAm-based copolymers

Polymer	GPC			<sup>1</sup> HNMR
	Mw	Mn	Mw/Mn	Mw
PNIPAm- <i>co</i> -AAc	12057	6448	1.87	9299
PNIPAm- <i>co</i> -AAc- <i>b</i> -PS	14230	9064	1.57	10408
PNIPAm- <i>co</i> -AAm	11686	5932	1.97	8159
PNIPAm- <i>co</i> -AAm- <i>b</i> -PS	13358	7260	1.84	9862

**Table 2.** PNIPAm based copolymer film thickness measure by  $\alpha$ -step and SEM imaging.

Copolymers	Film thickness (nm) at different concentration					
	5% (w/v)		10% (w/v)		20% (w/v)	
	$\alpha$ -step	SEM	$\alpha$ -step	SEM	$\alpha$ -step	SEM
PNIPAm- <i>co</i> -AAc- <i>b</i> -PS	325	206	530	463	795	1330
PNIPAm- <i>co</i> -AAm- <i>b</i> -PS	197	97.5	255	263	663	497

**Table 3.** Water contact angle measurements of copolymer films

Copolymers	Contact angle (°) at different concentrations		
	5% (w/v)	10% (w/v)	20% (w/v)
PNIPAm- <i>co</i> -AAc- <i>b</i> -PS	53.0	53.8	66.6
PNIPAm- <i>co</i> -AAm- <i>b</i> -PS	40.1	39.9	46.6