

Supplemental Information

Influence of Secondary Structure and Hydrogen- Bonding Arrangement on the Mechanical Properties of Peptidic-Polyurea Hybrids

*J. Casey Johnson, Nandula D. Wanasekara, LaShanda T. J. Korley**

Department of Macromolecular Science and Engineering, Case Western Reserve University,
Cleveland, Ohio, 44106, United States

* lashanda.korley@case.edu

Table S1. Peptidic-polyurea synthetic quantities.

Peptidic PU	Peptidic triblock grams (mmol)	Excess PDMS grams (mmol)	HDI grams (mmol)
PDMS-HDI	-	5.0 (2.0)	0.34 (2.0)
PBLA5-5	0.75 (0.16)	5.33 (1.94)	0.35 (2.1)
PBLA5-10	1.5 (0.31)	4.59 (1.68)	0.33 (1.99)
PBLA5-20	3.0 (0.63)	3.13 (1.14)	0.29 (1.77)
PBLA20-5	0.5 (0.05)	6.6 (2.4)	0.41 (2.45)
PBLA20-10	0.75 (0.07)	4.6 (1.67)	0.29 (1.74)
PBLA20-20	1.75 (0.16)	4.5 (1.65)	0.3 (1.81)
PZLY5-5	0.5 (0.1)	4.1 (1.5)	0.27 (1.6)
PZLY5-10	1.0 (0.2)	3.6 (1.3)	0.25 (1.5)
PZLY5-20	2.0 (0.4)	2.7 (1.0)	0.22 (1.4)
PZLY20-5	0.5 (0.04)	7.0 (2.6)	0.4 (2.64)
PZLY20-10	0.5 (0.04)	3.3 (1.2)	0.2 (1.24)
PZLY20-20	1.5 (0.1)	4.2 (1.5)	0.3 (1.6)

Synthetic details for the peptidic polyureas are provided within the manuscript.