Supporting Information



Figure S1. Tensile tests measurements from which average-values of Young's modulus, elongation at break and stress at break were calculated.



Figure S2. Deswelling experiment conducted at 37 and 50 °C, consecutively.



Figure S3. Cumulative DOX release profile over time at 37 °C (black filled dots) and Weibull fitting curve (dashed line).

Equation	Correlation coefficient (R ²)	Constants (K)	Exponent
Peppas-Sahlin		K ₁ = 4.535	
$\frac{M_t}{M_{\infty}} = K_1 \times t^m + K_2 t^{2m}$	0.97	$K_2 = -0.122$	m = 0.45
Weibull			
$\frac{M_t}{M_{\infty}} = \alpha \times (1 - exp(-(kt^b)))$	0.98	$\alpha = 40.517$ K = 11.131	b = 0.569
Korsmeyer-Peppas $\frac{M_t}{M_{\infty}} = K_{KP} \times t^n$	0.89	$K_{KP} = 6.684$	n =0.291



Figure S4. ¹H NMR spectra of triazide derivative of glycerol ethoxylate (1a) (*top*) and glycerol ethoxylate derivative (*bottom*) (solvent = CDCl₃).



Figure S5. ¹H NMR spectrum of bis(alkyne) isosorbide (1b) (solvent = CDCl₃).



Figure S6. ¹³C NMR spectrum bis(alkyne) isosorbide (**1b**) (solvent = CDCl₃).