

Supplementary Material

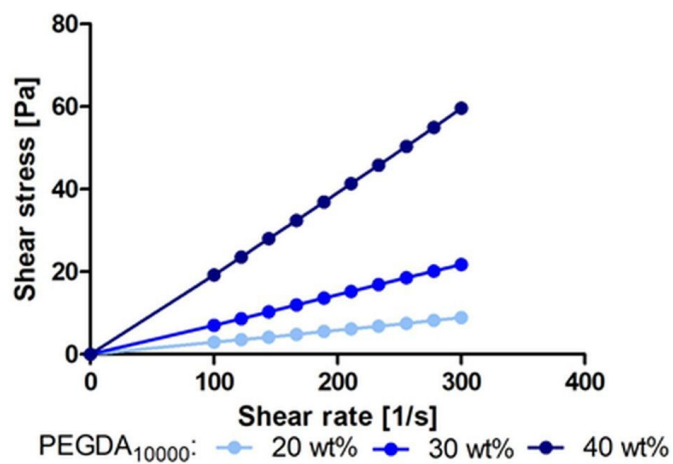


Figure S1. Exemplary shear stress/shear rate representation of PEGDA₁₀₀₀₀ solutions in H₂O/MeOH (1:2) with different concentrations of the polymer at 15 °C (n = 3).

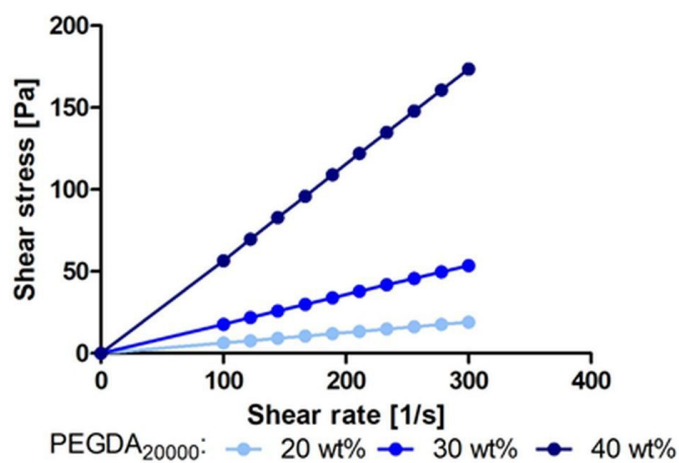


Figure S2. Exemplary shear stress/shear rate representation of PEGDA₂₀₀₀₀ solutions in H₂O/MeOH (1:2) with different concentrations of the polymer at 15 °C (n = 3).

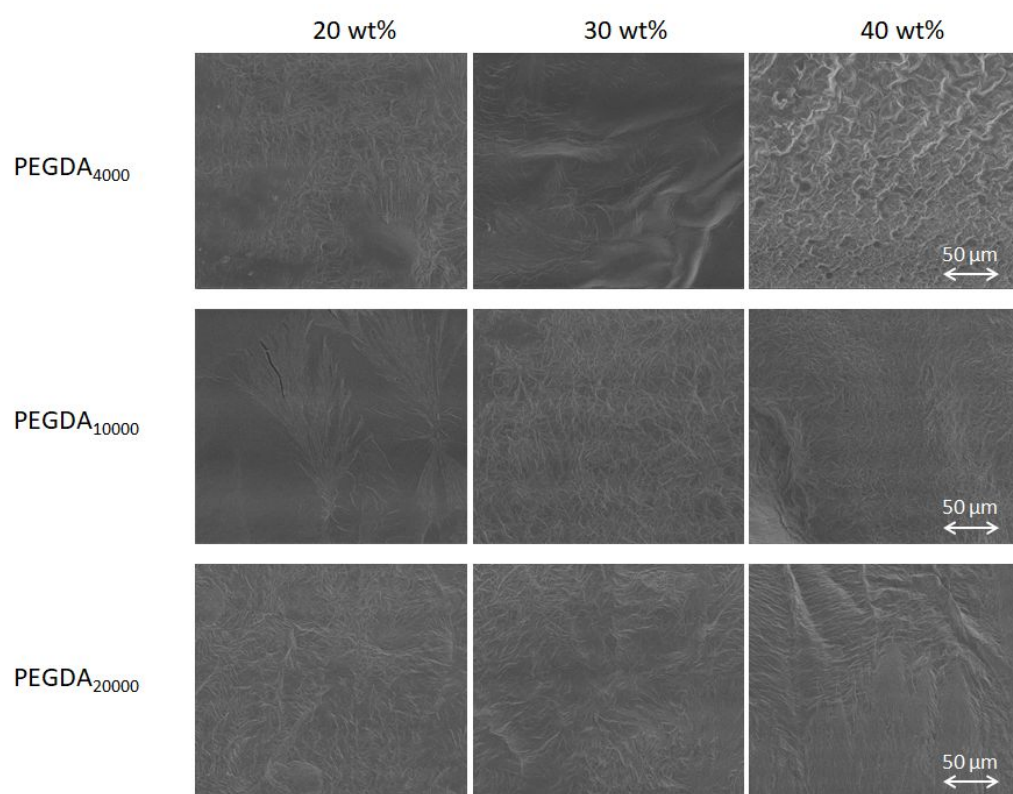


Figure S3. Comparison of SEM images of the surface of PEGDA samples with different molecular masses (4000, 10,000, and 20,000 g/mol) and their concentrations with BSA-FITC.

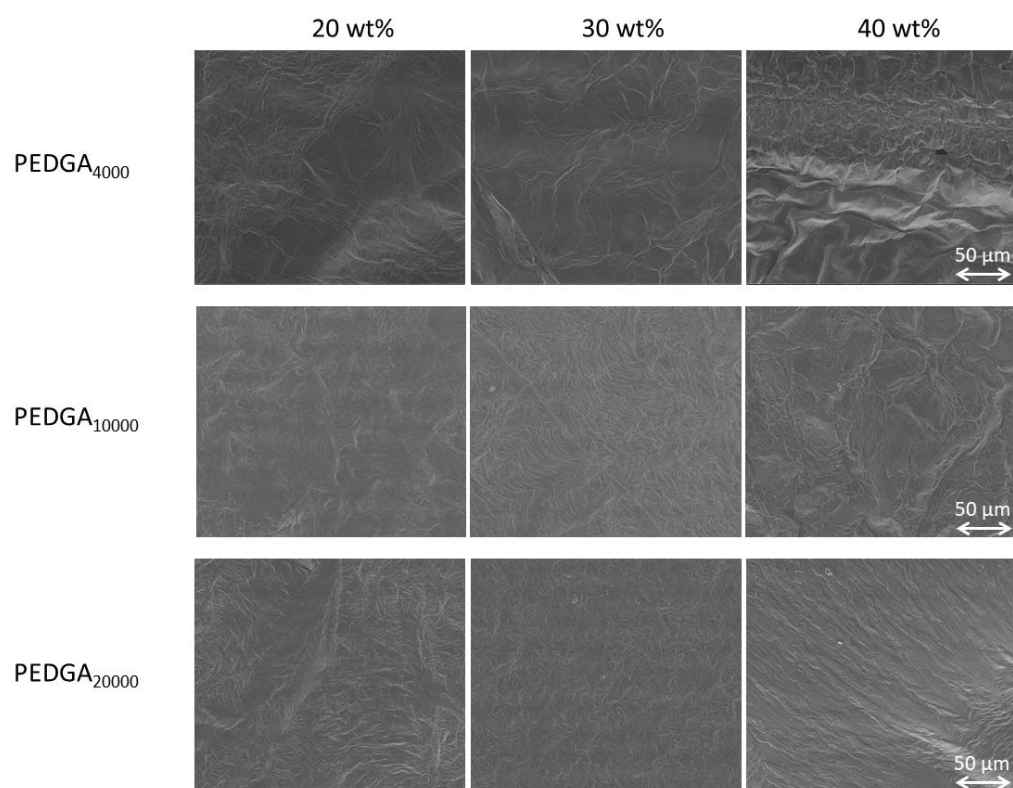


Figure S4. Comparison of SEM images of the surface of PEGDA samples with different molecular masses (4000, 10,000, and 20,000 g/mol) and their concentrations without BSA-FITC.

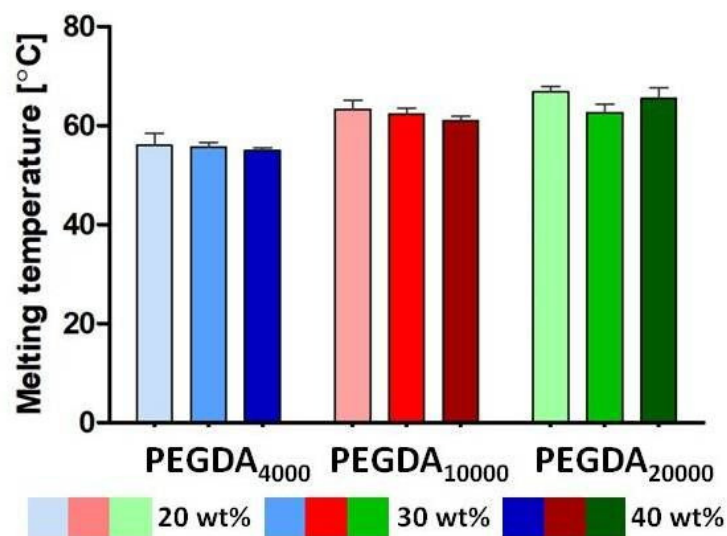


Figure S5. Mean Melting temperature[°C] with SD for PEGDA₄₀₀₀, PEGDA₁₀₀₀₀ and PEGDA₂₀₀₀₀ samples containing 20, 30, or 40 wt % of the polymer without BSA-FITC (n = 3).

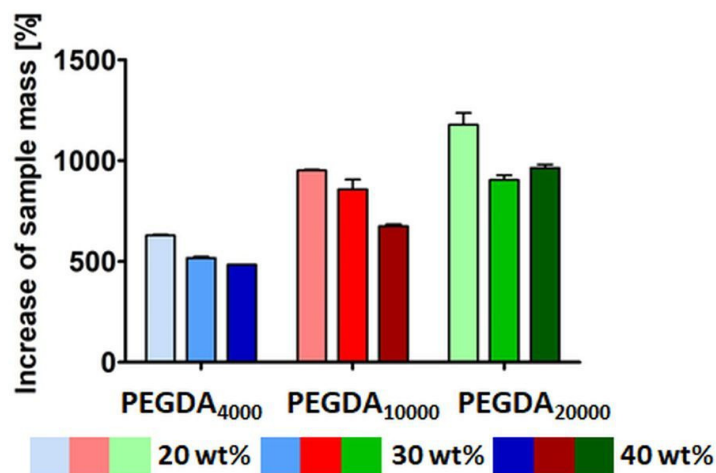


Figure S6. Increase in sample ($\varnothing = 6$ mm, thickness = 1 mm) weight (pure PEGDA without BSA-FITC) in percentage with SD after 24 h swelling in a TES buffer at 37 °C (n = 3).

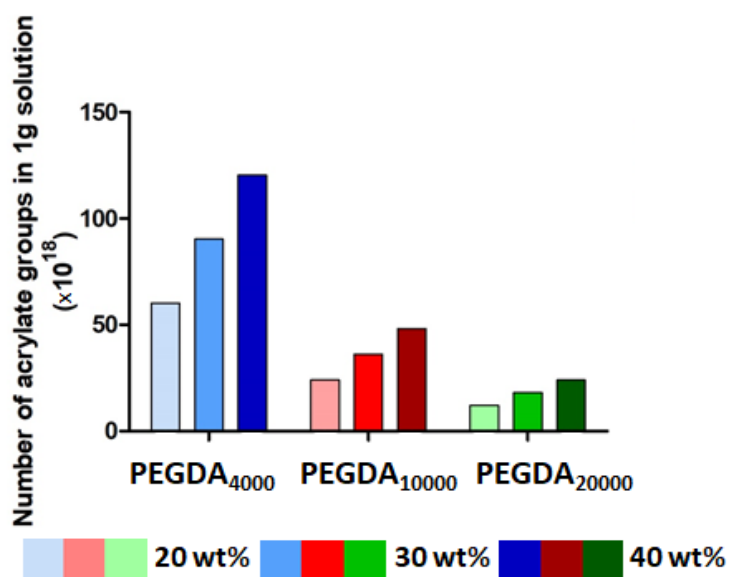


Figure S7. Theoretical number of free acrylate groups in 1 mL of unpolymerized of different PEGDA solutions.

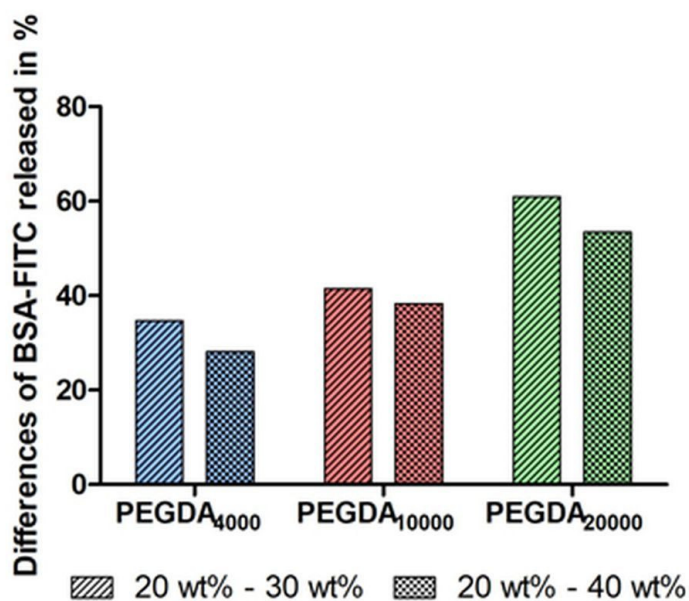


Figure S8. Differences between the 20–30 and 20–40 wt % PEGDA samples in the released amount of BSA–FITC.

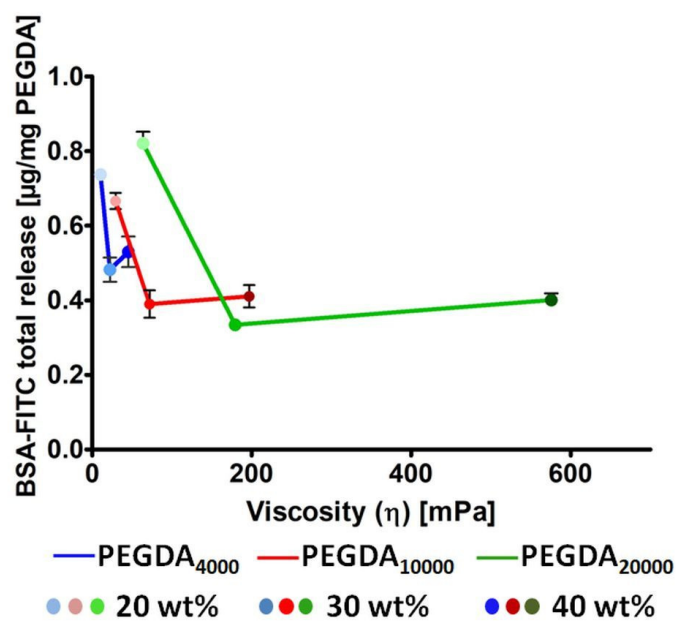


Figure S9. Relationship between total BSA–FITC release and PEGDA viscosity (4000, 10,000, and 20,000 g/mol) solutions (20, 30, and 40 wt %).