

Supporting information of the manuscript entitled “Molecular rotors with aggregation-induced emission (AIE) as fluorescent probes for the control of polyurethane synthesis” by Pierpaolo Minei, Giuseppe Iasilli, Giacomo Ruggeri, Virgilio Mattoli and Andrea Pucci

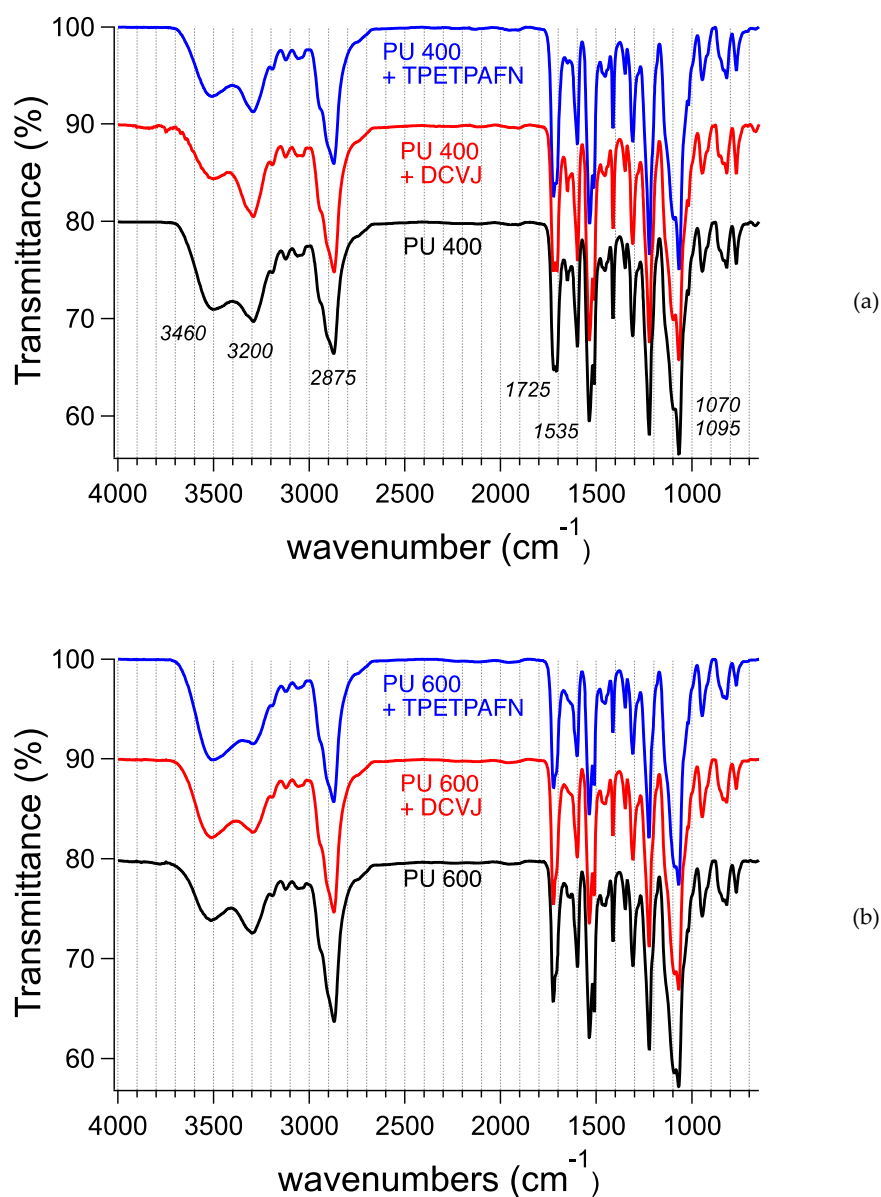


Figure S1. FTIR spectra of the prepared polyurethanes starting from (a) PEG400 and (b) PEG600

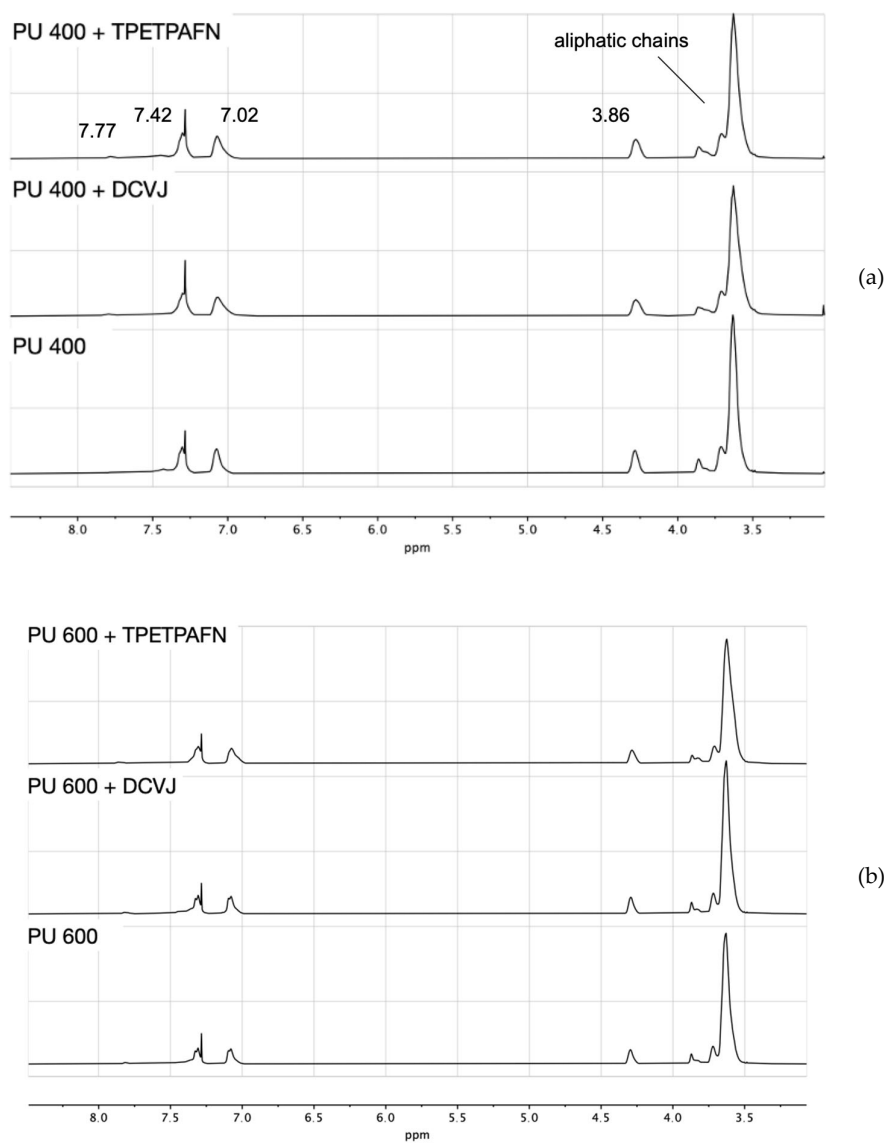


Figure S2. ^1H NMR spectra of the prepared polyurethanes starting from (a) PEG400 and (b) PEG600

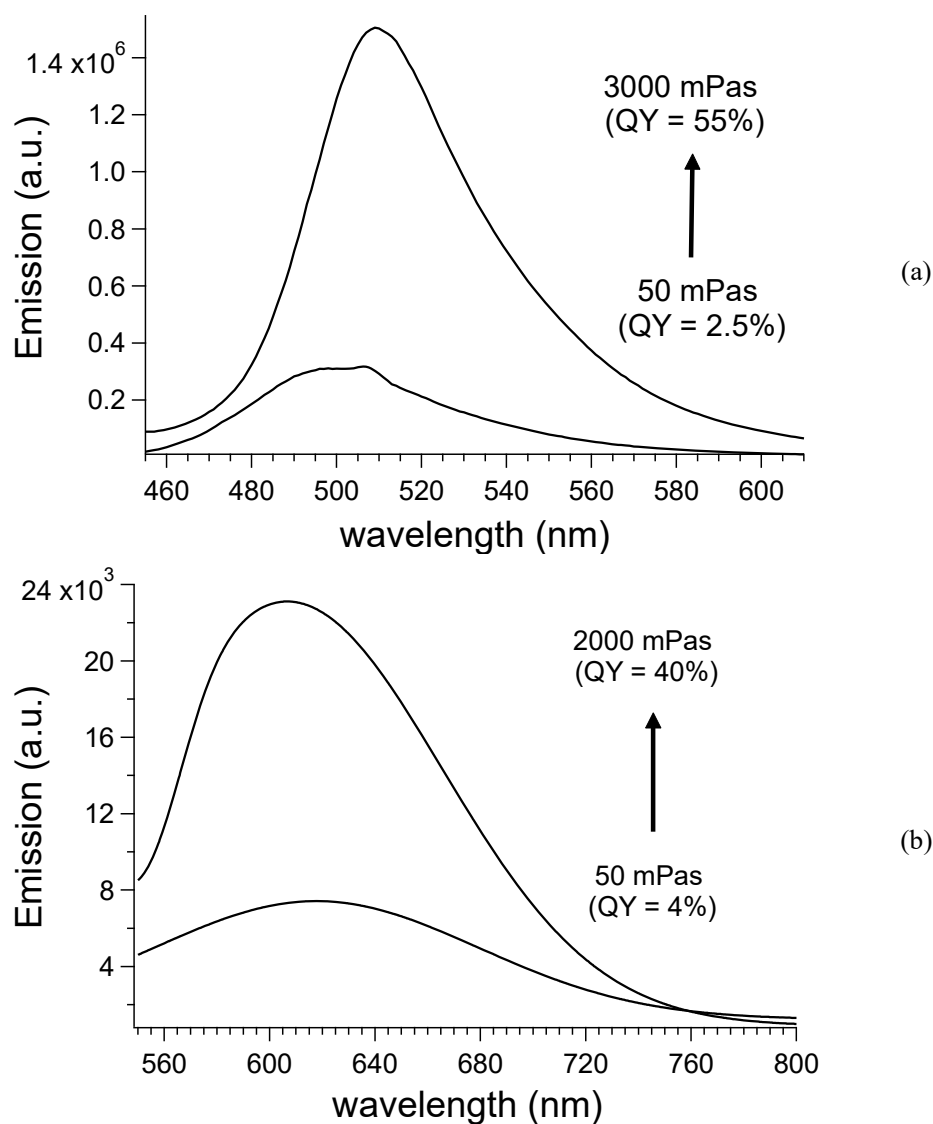


Figure S3. Fluorescence spectra of PU polymerization in the presence of (a, $\lambda_{\text{exc}} = 430$ nm) DCVJ and (b, $\lambda_{\text{exc}} = 500$ nm) TPETPAFN fluorescent probes and quantum yield (QY) variations as a function of the viscosity variation

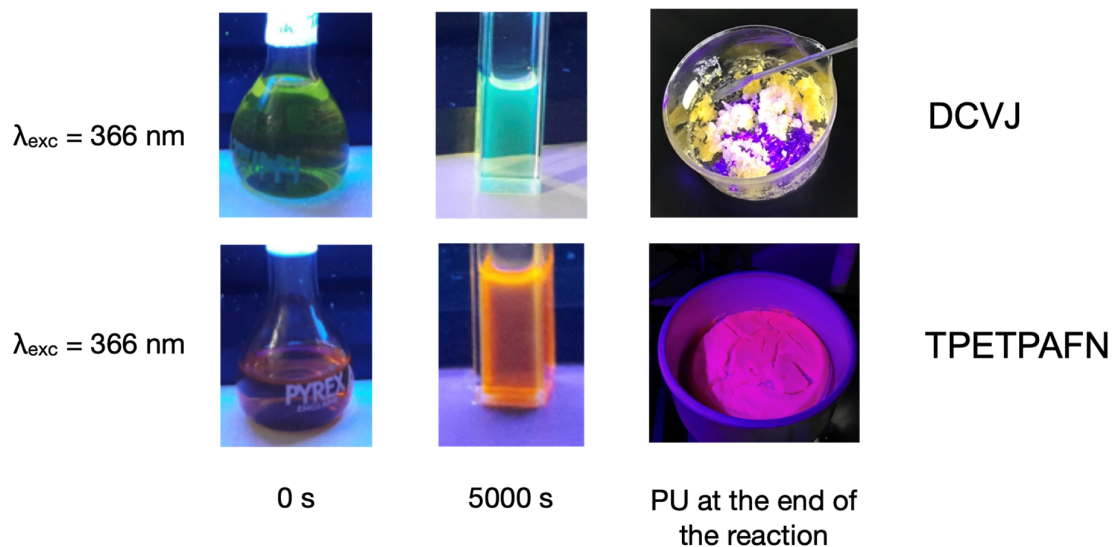


Figure S4. Photos taken under the excitation of a long-range UV lamp at 366 nm of reaction samples containing the respective fluorescent probe at $t = 0 \text{ s}$, after 5000 s and after PU precipitation in water at the end of the reaction. In all cases, the PU obtained by using PEG400 as diol was selected.