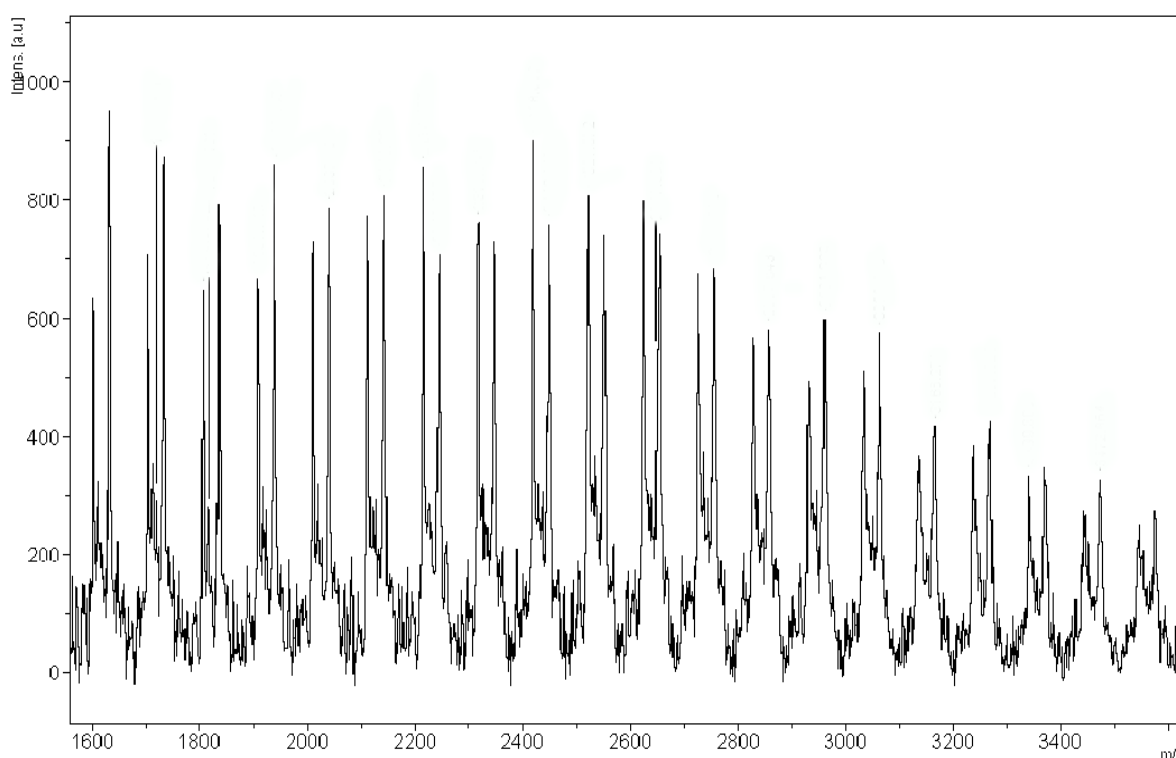


### Supporting Information for

## Poly(Carbonate-Urethane): An Isocyanate-Free Procedure from $\alpha,\omega$ -di(Cyclic Carbonate) Telechelic Poly(Trimethylene Carbonate)s

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**Figure S1.** MALDI-TOF mass spectrum of a PTMC-(OCH<sub>2</sub>DMC)<sub>2</sub> ( $\overline{Mn}_{\text{NMR}} = 4\,000\text{ g}\cdot\text{mol}^{-1}$ ).



MALDI-TOF mass spectra were recorded with a AutoFlex LT spectrometer (Bruker) equipped with a pulsed N<sub>2</sub> laser source (337 nm, 4 ns pulse width) and time-delayed extracted ion source. Spectra were recorded in the positive-ion mode using the reflectron mode and an accelerating voltage of 19 kV. The polymer sample was dissolved in THF (10 mg.mL<sup>-1</sup>) and a solution (2:1 v:v) of  $\alpha$ -cyano-4-hydroxycinnamic acid (10 mg.mL<sup>-1</sup>) in acetonitrile/0.1%TFA was prepared. Both solutions were then mixed in a 1:1v/v ratio respectively, deposited sequentially on the sample target and then air-dried.

**Figure S2.** Differential Scanning Calorimetry trace of a PTMCHU synthesized from PTMC-(OCH<sub>2</sub>DMC)<sub>2</sub> (heat flow expressed in mW as a function of temperature expressed in °C; second run).

