Supplemental Information

Polymers from Fatty Acids: Poly(ω -hydroxyl tetradecanoic acid) Synthesis and Physico-Mechanical Studies

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Figure S.1 Stress-strain plots using a linear scale displaying tensile tests of P(ω -OHC14) Samples 1-5 (see Table 1).

Figure S.2 FT-IR spectrum of poly(ω -hydroxytetradecanoate), P(ω -OHC14). Assignments of FTIR signals are as follows: , diagnostic peaks in the P(ω -OHC14) IR spectrum (shown in Figure S2 in supplemental information) were assigned as follows: 2920 cm^{-1} (asymmetric CH_2 stretching); 2850 cm^{-1} (symmetric CH_2 stretching); 1730 cm^{-1} (carbonyl($\text{C}=\text{O}$) stretching); 1460 cm^{-1} (CH_2 bending); 1420 cm^{-1} , 1370 cm^{-1} (CH_2 wagging); 1350 cm^{-1} , 1320 cm^{-1} , 1300 cm^{-1} (C-O and C-C stretching in the crystalline phase); 1270 cm^{-1} , 1250 cm^{-1} (asymmetric C-O-C stretching); 1220 cm^{-1} , 1200 cm^{-1} (OC-O stretching); 1180 cm^{-1} (symmetric C-O-C stretching); 1115 cm^{-1} , 1090 cm^{-1} (C-O and C-C stretching in the amorphous phase); 1030 cm^{-1} , 960 cm^{-1} , 731 cm^{-1} ($[\text{CH}_2]_n$ rocking).