## Solid-State Polymerization of Poly(Trimethylene Terephthalate):

## **Reaction Kinetics and Prepolymer Molecular Weight Effects**

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Figure S1. Prepolymer molecular weight effect on SSP of PTT at (a) 170 °C, (b) 180 °C, and (c) 190 °C.



**Figure S2.** Melting isotherm for polymers solid-state polymerized using PTTP1 (IV = 0.121 dL/g) at (a) 170 °C, (b) 180 °C, and (c) 190 °C.



**Figure S3.** Melting isotherm for polymers solid-state polymerized using PTTP2 (IV = 0.205 dL/g) at (a) 170 °C, (b) 180 °C, and (c) 190 °C.



**Figure S4.** Melting isotherm for polymers solid-state polymerized using PTTP3 (IV = 0.416 dL/g) at (a) 170 °C, (b) 180 °C, and (c) 190 °C.



**Figure S5.** Wide-angle X-ray diffraction patterns of PTTP1 and solid-state polymerized PTT from PTTP1.



**Figure S6.** Dependence of (a)  $T_m$  and (b) crystallinity of polymers solid-state polymerized using PTTP1 (IV = 0.121 dL/g), PTTP2 (IV = 0.205 dL/g) and PTTP3 (IV = 0.416 dL/g) on reaction time at a reaction temperature 180 °C.