Supporting Information

Preparation of High-Molecular-Weight Poly(1,4-butylene carbonate-*co*-terephthalate) and Its Thermal Properties.

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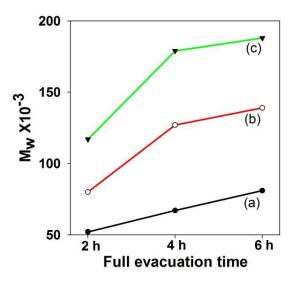


Figure S1. Increase of molecular weight as a function of time at full vacuum at 190 °C (entry 1, Table 2) (**a**), 200 °C (entry 2, Table 2) (**b**), and 210 °C (entry 3, Table 2) (**c**)

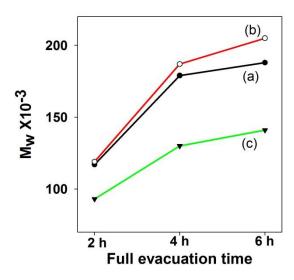


Figure S2. Increase of molecular weight as a function of time at full vacuum at 210 °C using 0.2 mol % NaH (entry 3, Table 2) (a), 0.1 mol % (entry 4, Table 2) (b), and 0.05 mol % (entry 5, Table 2) (c).

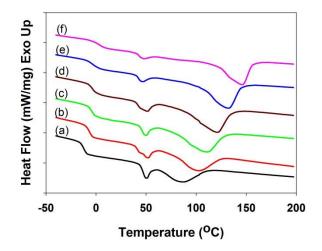


Figure S3. DSC curves of PBCTs, after annealing at 30 °C for 12 h, prepared at [DMT]/[BD] ratio of 0.30 (entry 7, Table 1) (**a**), 0.35 (entry 8, Table 1) (**b**), 0.38 (entry 9, Table 1) (**c**), 0.40 (entry 10, Table 1) (**d**), 0.45 (entry 11, Table 1) (**e**), and 0.50 (entry 12, Table 1) (**f**)

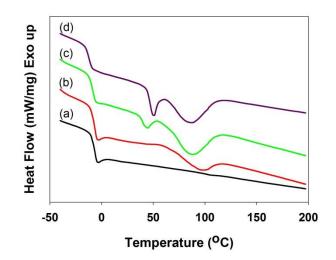


Figure S4. DSC curves of PBCT prepared at [DMT]/[BD] ratio of 0.30 (entry 7, Table 1): the second scan after rapid cooling (~30 °C/min) (**a**), after annealing at 30 °C for 0.5 h (**b**), after annealing at 30 °C for 1 h (**c**), and after annealing at 30 °C for 12 h (**d**)

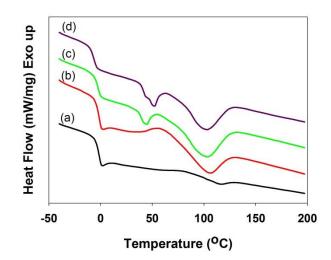


Figure S5. DSC curves of PBCT prepared at [DMT]/[BD] ratio of 0.35 (entry 8, Table 1): the second scan after rapid cooling (~30 °C/min) (**a**), after annealing at 30 °C for 0.5 h (**b**), after annealing at 30 °C for 1 h (**c**), and after annealing at 30 °C for 12 h (**d**)

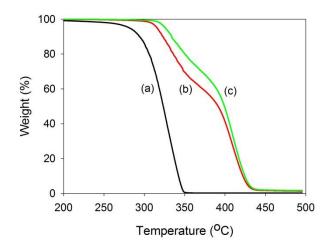


Figure S6. TGA curves of PBC (M_w 146 000) (**a**), PBCT prepared at [DMT]/[BD] ratio of 0.40 (entry 10, Table 1) (**b**), PBCT prepared at [DMT]/[BD] ratio of 0.50 (entry 12, Table 1) (**c**)



Figure S7. Polymerization apparatus for the scale of 100 g-polymer/batch and the isolated polymers