A new perspective to enhance the II - I transition of polybutene-1

Ruo Bai, Jingqing Li, Dinghai Huang, Shichun Jiang*

School of Materials Science and Engineering, Tianjin University, Tianjin 300072, P. R. China

* Corresponding author: scjiang@tju.edu.cn



Figure S1. The fraction of form I obtained from the WAXS measurements for the nonisothermally crystallized samples with various annealing times.



Figure S2. The sum crystallinity of form II and I of PB-1 containing (a) 1wt% and (b) 5wt% TAB-1 crystalized at different temperature obtained from the DSC heating curves.



Figure S3. The sum crystallinity of form II and I obtained from WAXS profiles of PB-1 containing (a) 1wt% and (b) 5wt% TAB-1 crystalized at different temperature.



Figure S4. DSC heating curves of PB-1 samples with different TAB-1 content after nonisothermal crystallization and crystallization temperatures of the PB-1 samples with different TAB-1 during cooling.



Figure S5. The fraction of form I in PB-1 containing (a) 1wt% and (b) 5wt% TAB-1 crystallized at different Tc with various annealing times.





Figure S6. The fraction of form I obtained from WAXS measurements for (a) neat PB-1, PB-1 containing (b) 1wt%, (c) 2wt% and (d) 5wt% TAB-1 crystallized at different Tc with various annealing times.



Figure S7. The melting points of (a) form II and (b) form I of the samples isothermally crystalized at 95°C with different annealed times.



Figure S8. The melting points of (a) form II and (b) form I of the samples isothermally crystalized at 100°C with different annealed times.