

Achieving Secondary Dispersion of Modified Nanoparticles by Hot-Stretching to Enhance Dielectric and Mechanical Properties of Polyarylene Ether Nitrile Composites

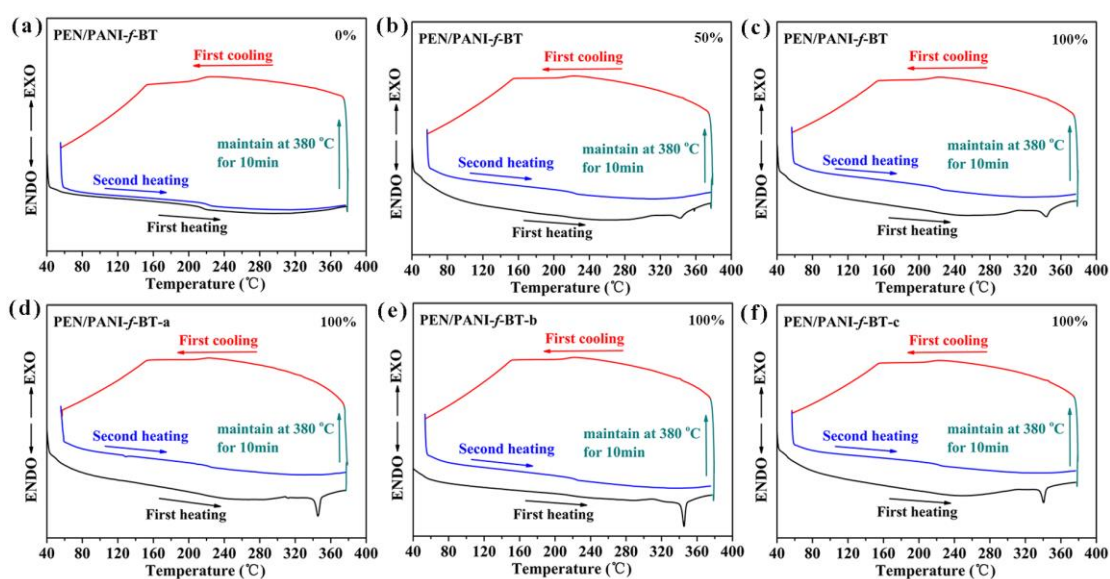


Figure S1. The DSC curves of PEN/PANI-*f*-BT nanocomposite films with different stretching ratios: (a) PEN/PANI-*f*-BT nanocomposites; (b) PEN/PANI-*f*-BT nanocomposites hot-stretched by 50%; (c) PEN/PANI-*f*-BT nanocomposites hot-stretched by 100%; (d) PEN/PANI-*f*-BT-a nanocomposites hot-stretched by 100%; (e) PEN/PANI-*f*-BT-b nanocomposites hot-stretched by 100%; (f) PEN/PANI-*f*-BT-c nanocomposites hot-stretched by 100%.

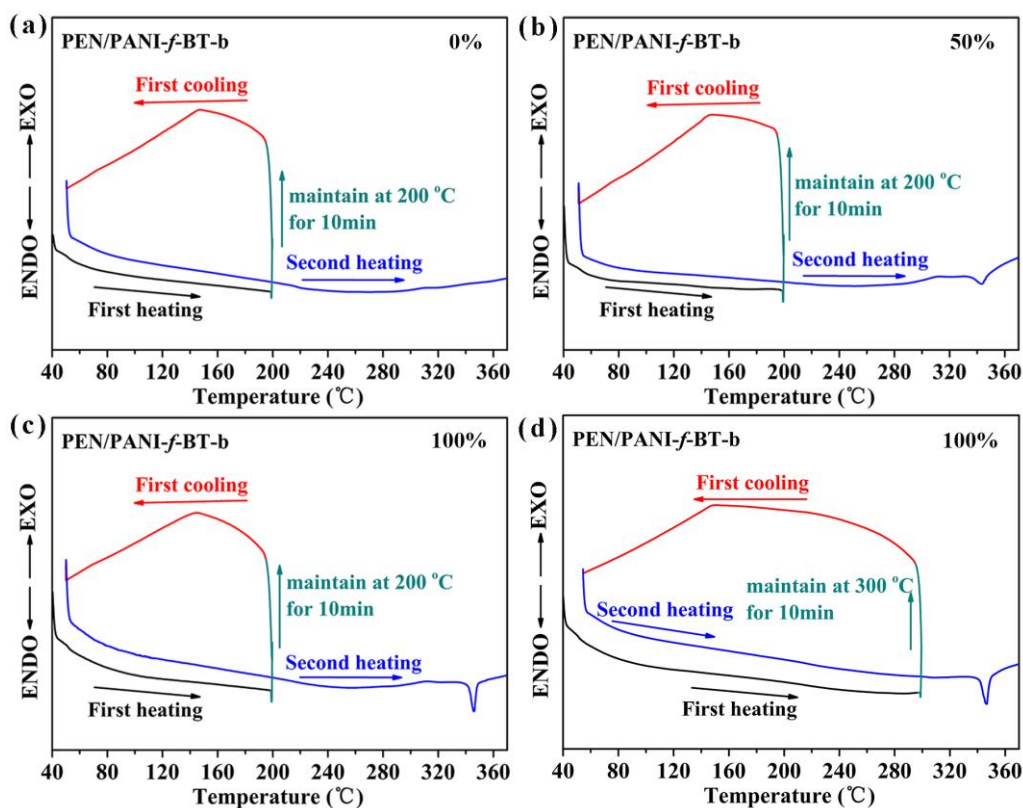


Figure S2. The DSC curves of PEN/PANI-*f*-BT-b nanocomposite films with different stretching ratios: (a) PEN/PANI-*f*-BT-b nanocomposites; (b) PEN/PANI-*f*-BT-b nanocomposites hot-stretched by 50%; (c) PEN/PANI-*f*-BT-b nanocomposites hot-stretched by 100%; (d) PEN/PANI-*f*-BT-b nanocomposites hot-stretched by 100% after treatment at 300 °C.

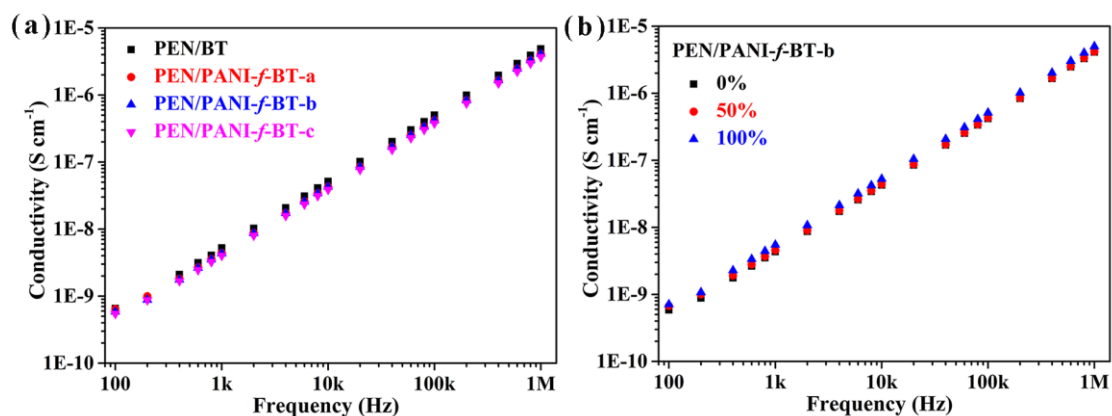


Figure S3. The electrical conductivity of (a) PEN/PANI-*f*-BT nanocomposites and (b) PEN/PANI-*f*-BT-b nanocomposites with different stretching ratios.