

Effect of geometrical confinement on ordering of thermoplastic polyurethanes with crystallizable hard and soft blocks

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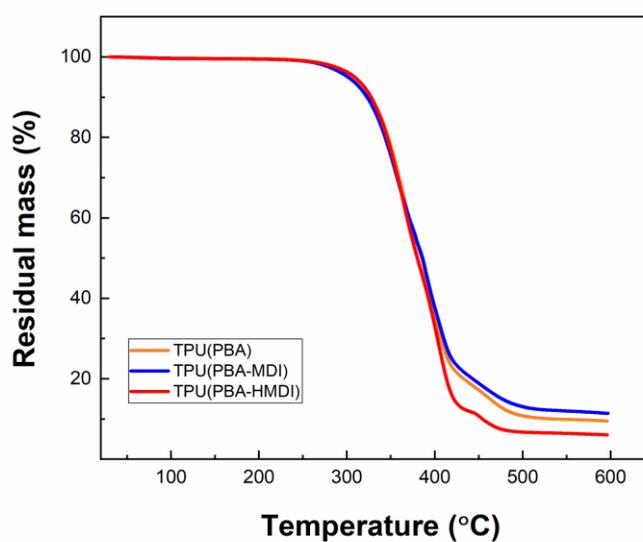


Figure S1. TGA curves for the TPU samples measured at a rate of 10 °C/min in nitrogen atmosphere.

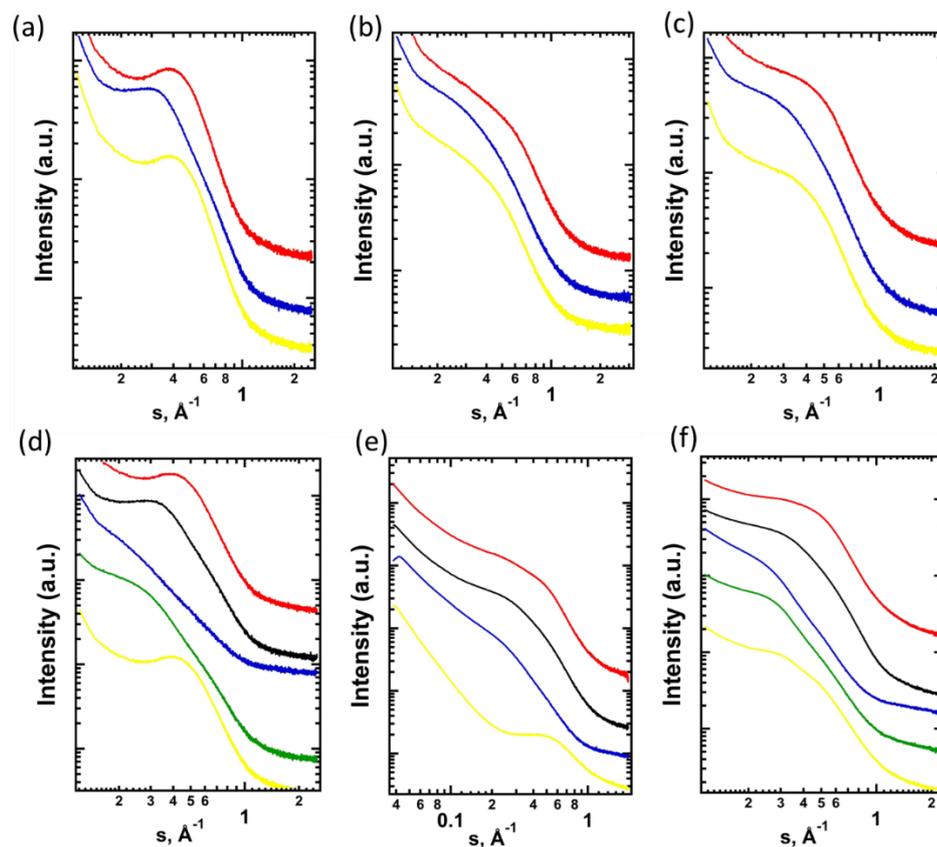


Figure S2. SAXS curves of TPU(PBA-HMDI) (a, d), TPU(PBA) (b, e), TPU(PBA-MDI) (c, f): initial (red), after SS melting (black), at maximum temperature (blue), immediately after cooling (green) and after isothermal crystallization (yellow): $T_m = 80\text{ }^\circ\text{C}$ (a,b,c) and $T_m = 180\text{ }^\circ\text{C}$ (d,e,f).

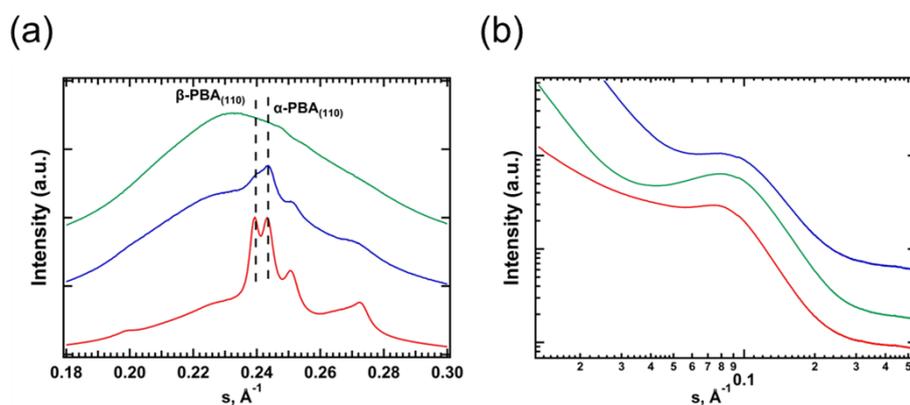


Figure S3. WAXS (a) and SAXS (b) curves for TPUs after cooling from $230\text{ }^\circ\text{C}$ and crystallization for 1 week at RT: TPU(PBA) (green), TPU(PBA-MDI) (blue), TPU(PBA-HMDI) (red).

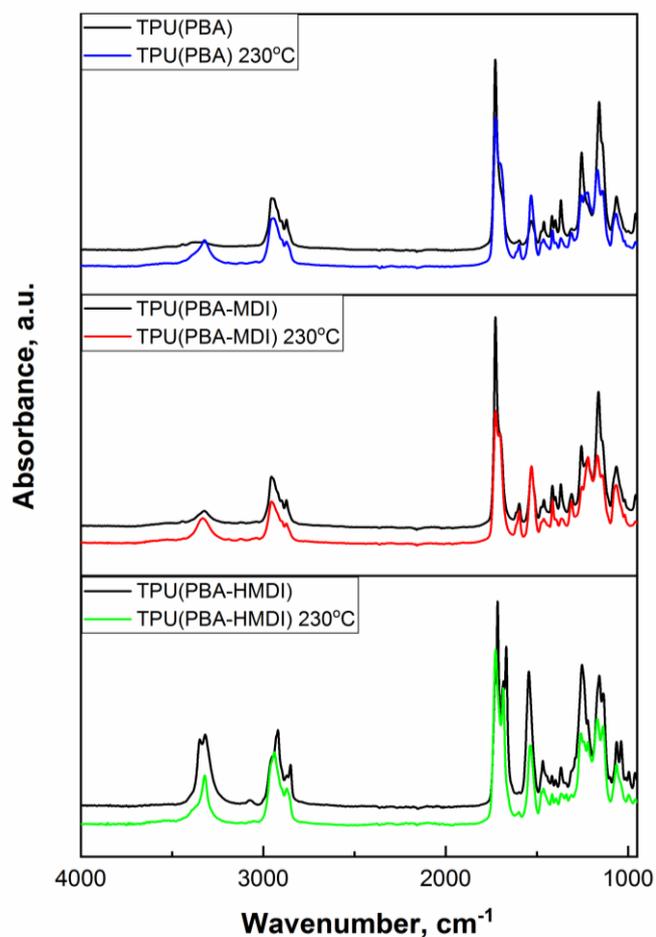


Figure S4. IR spectra for the native samples (black curve) and samples crystallized after heating to 230 °C (color curves).

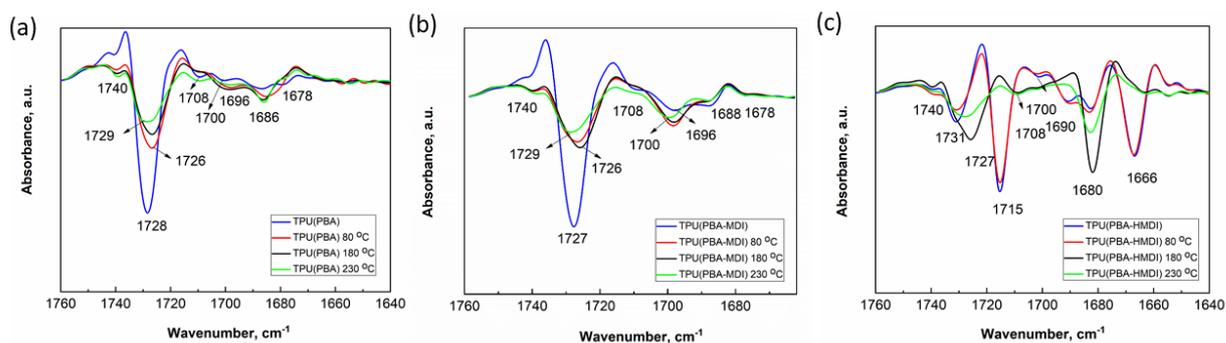


Figure S5. The second derivatives IR spectra TPU(PBA) (a), TPU(PBA-MDI) (b) and TPU(PBA-HMDI) (c) native samples (blue lines) and crystallized after 80°C (red lines), 180°C (black lines) and 230 °C (green lines).