

Two Chain-Packing Transformations and their Effects on the Molecular Dynamics and Thermal Properties of α -Form Isotactic Poly(propylene) under Hot Drawing: A Solid-State NMR Study

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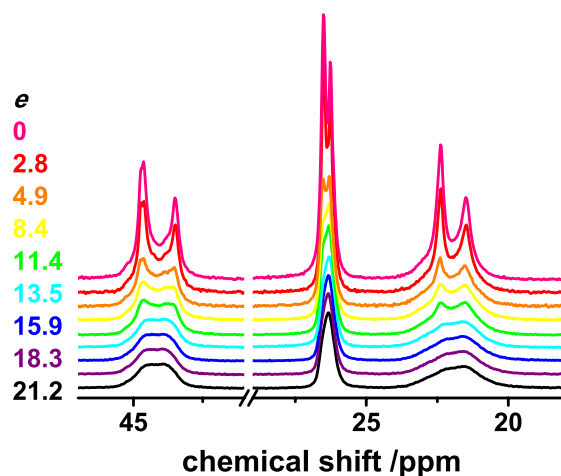


Figure S1. Pure crystalline ^{13}C CPMAS spectra of the original α_2 -rich *i*PP drawn at $T_d = 125^\circ\text{C}$ at various e values.

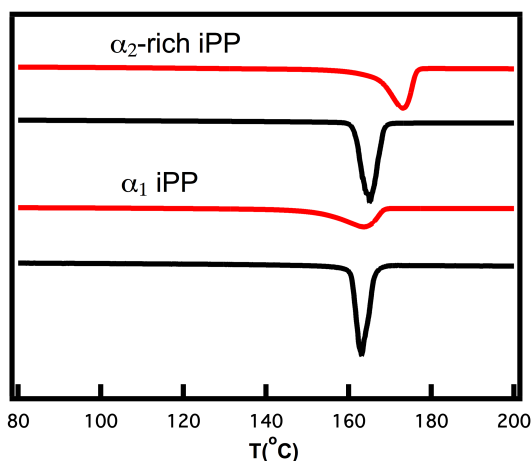


Figure S2. DSC curves of the original α_2 -rich *i*PP drawn at 150°C and the original α_1 *i*PP drawn at 140°C . The red curves represent the non-drawn samples and the black curves represent the samples drawn to $e \approx 20$.

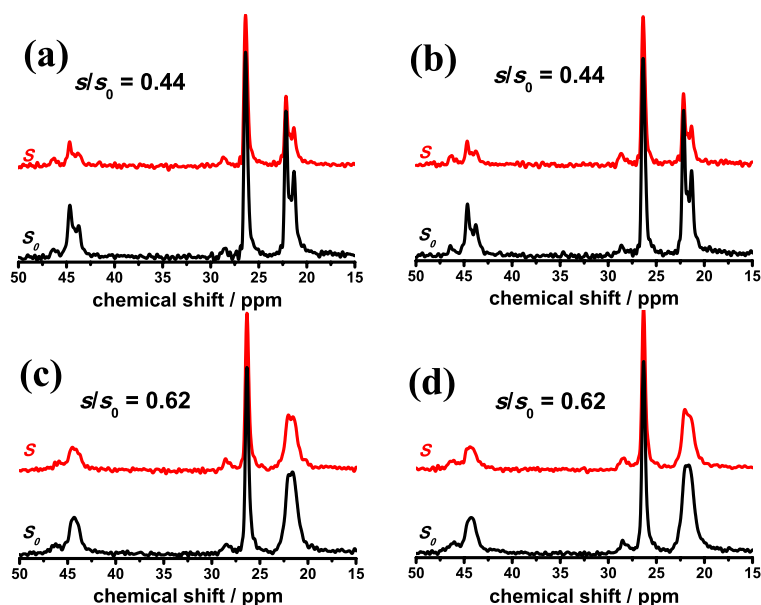


Figure S3. CODEX exchange (S) and reference (S_0) spectra for the undrawn original α_2 -rich sample (a) before and (b) after annealing at 120 °C for 30 hours with $t_{\text{mix}} = 200$ ms, and the original α_2 -rich sample drawn to $e = 20.4$ (c) before and (d) after annealing at 120 °C for 30 hours with $t_{\text{mix}} = 20$ ms at 120 °C using ^1H - ^{13}C double resonance 7mm probe. Annealing does not influence molecular dynamics for both the drawn and undrawn samples.