

# **Supercritical Fluid Microcellular Foaming of High-Hardness TPU via a Pressure-Quenching Process: Restricted foam Expansion Controlled by Matrix Modulus and Thermal Degradation**

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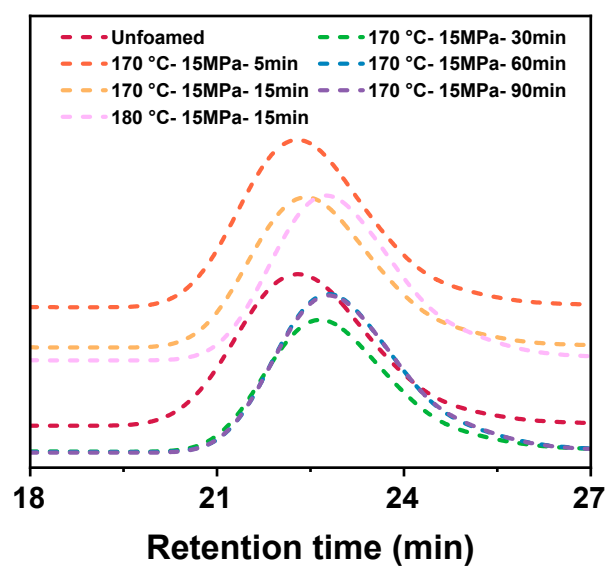
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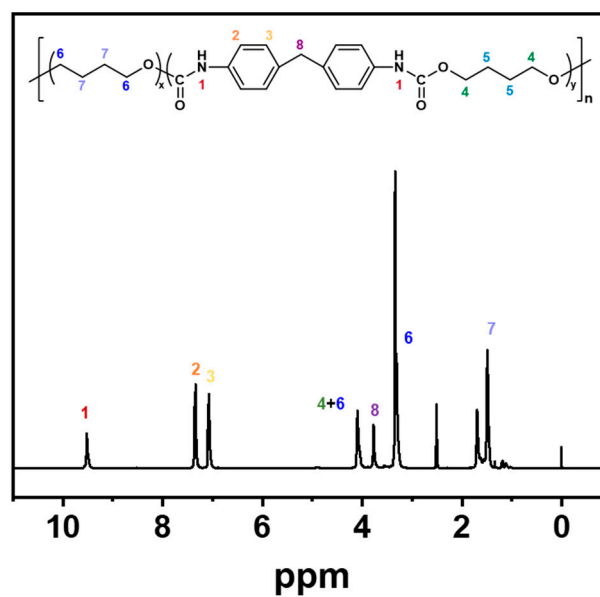
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**Figure S1.** Retention time curves of foams and unfoamed sample. The saturation pressure were 15 MPa, and the saturation temperature was 170 °C or 180 °C with varying saturation time.



**Figure S2.**  $^1\text{H}$  NMR spectra of 75D raw material.