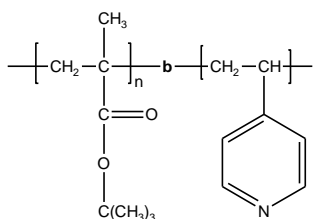


Sample Name:

**Poly (t-butyl methacrylate-b-4-vinyl pyridine)**

Sample #: **P42483-tBuMA4VP**

**Structure:**



**Composition:**

Mn $\times 10^3$ tBuMA-4VP	PDI
300.0-b-100,0	1.15
T <sub>g</sub> for tBuMA block	127 °C
T <sub>g</sub> for 4VP block	152 °C

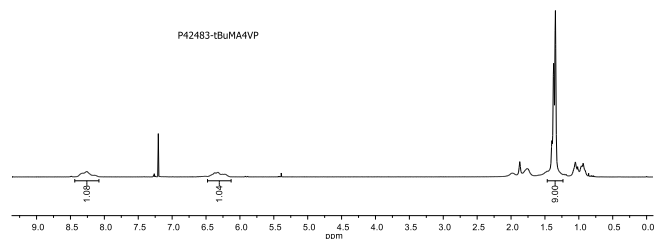
**Synthesis Procedure:**

Poly(t-butyl methacrylate-b-4-vinyl pyridine) is synthesized by anionic polymerization process.

**Characterization:**

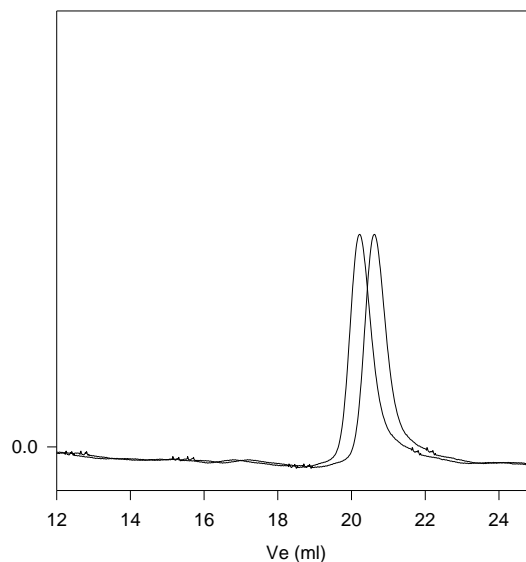
The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR analysis.

**<sup>1</sup>H NMR Spectrum of the block copolymer:**



**SEC elugram of the polymer:**

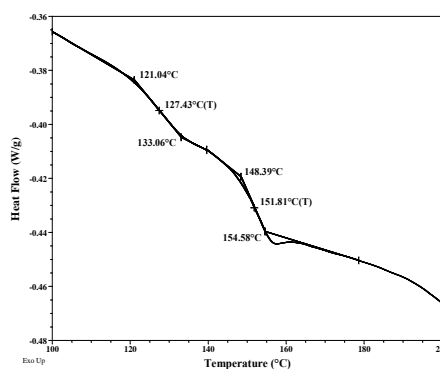
**P42483-tBuMA4VP**



— Poly(tert.butylmethacrylate) M<sub>n</sub>=300,000, M<sub>w</sub>=330,000, PI=1.10

— Block Copolymer PtBuMA(300,000)-b-P4VP(100,000), PI=1.15

**DSC Thermogram of the polymer:**



**Reference:**

**S. K. Varshney, X. F. Zhong and A. Eisenberg**  
*Macromolecules*, 1993, 26, 701-706.