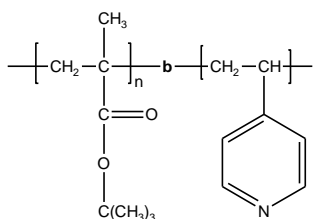


Sample Name:

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

Sample #: **P42476-tBuMA4VP**

Structure:



Composition:

Mn × 10 ³ tBuMA-4VP	PDI
38.0-b-25.0	1.07
T _g for tBuMA block	127 °C
T _g for 4VP block	152 °C

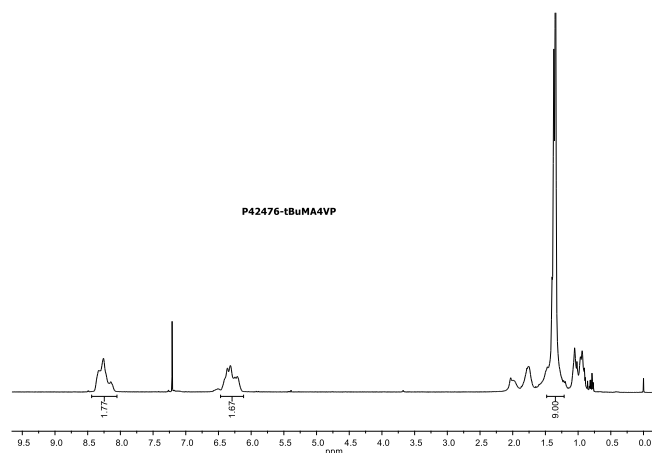
Synthesis Procedure:

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

Characterization:

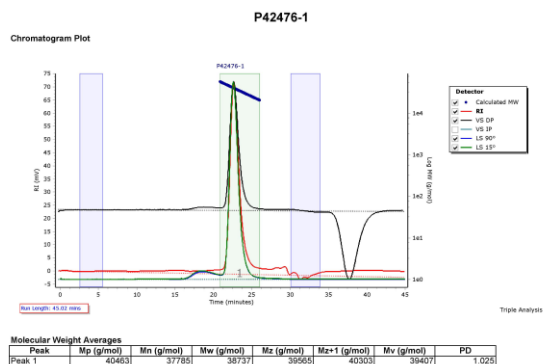
The product was characterized by size exclusion chromatography (SEC) and ¹H NMR analysis.

¹H NMR Spectrum of the block copolymer:



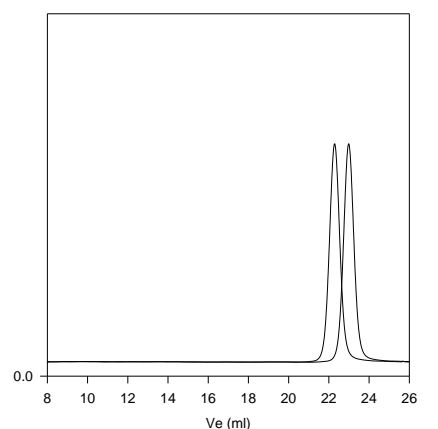
SEC elugram of the first Block:

Agilent GPC/SEC Software



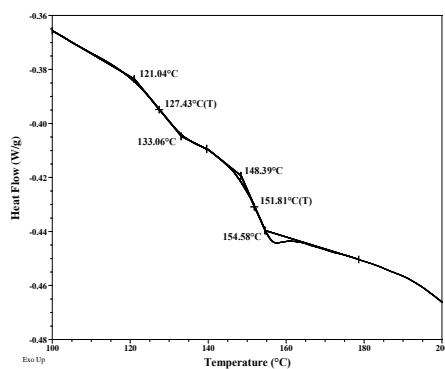
SEC elugram of the polymer:

P42476-tBuMA4VP



— Poly(tert.butylmethacrylate) M_n=38,000, M_w=38,500, PI=1.03
 — Block Copolymer PtBuMA(38,000)-b-P4VP(25,000), PI=1.07

DSC Thermogram of the polymer:



Reference:

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