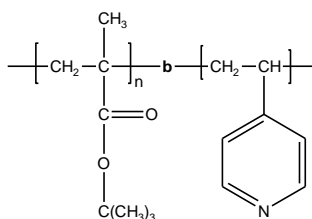


Sample Name:
Poly (t-butyl methacrylate-b-4-vinyl pyridine)

Sample #: **P43677-tBuMA4VP**

Structure:



Composition:

$M_n \times 10^3$ tBuMA-4VP	PDI
107.0-b-141.0	1.26

T_g for tBuMA block: 127 °C
T_g for 4VP block: 152 °C

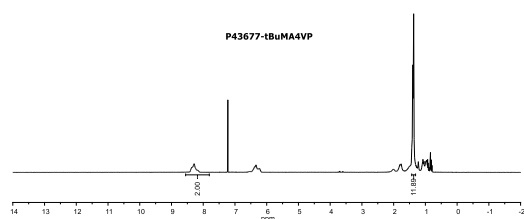
Synthesis Procedure:

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

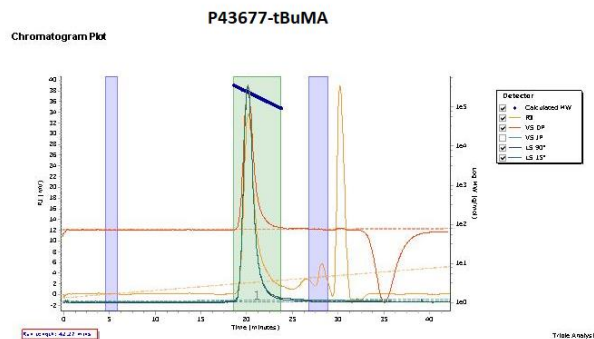
Characterization:

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

^1H NMR Spectrum of the block copolymer:



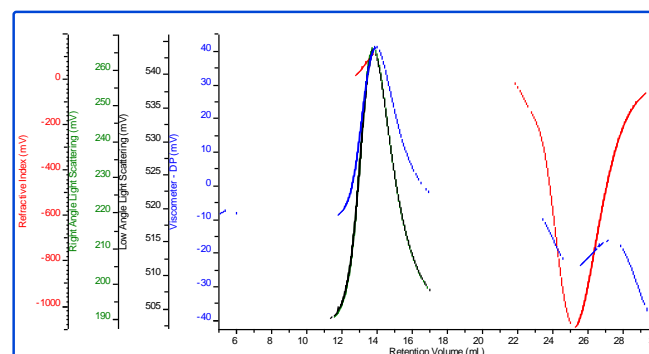
SEC elugram of the first Block:



SEC elugram of the polymer:

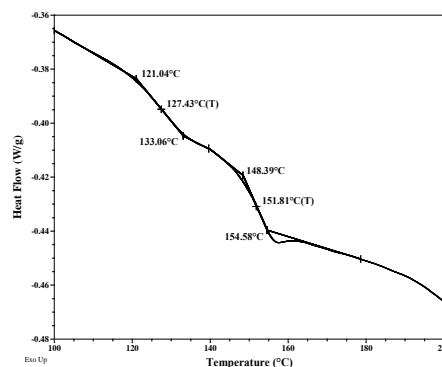
P43677-tBuMA4VP

dn/dc	0.0950
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	Calibration_2020-11-25_PMMA-85K-0004.vcm



Sample	M_n	M_w	M_p	M_w/M_n
P43677-tBuMA4VP_1_202	251,207	317,175	317,689	1.263

DSC Thermogram of the polymer:



Reference:

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