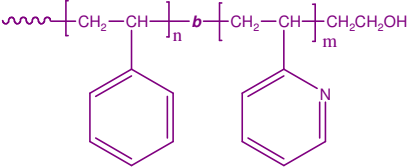


Sample Name:
Hydroxy terminated Poly(styrene-b-2-vinyl
pyridine)

Sample #: P40157-S2VPOH

Structure:

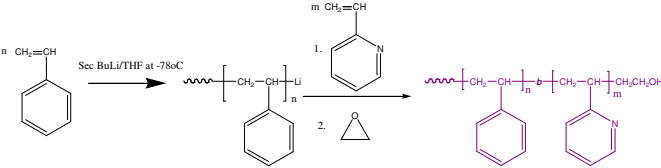


Composition:

Mn x 10 ³ S-b-2VP	PDI
65.0-b-19.0	1.07

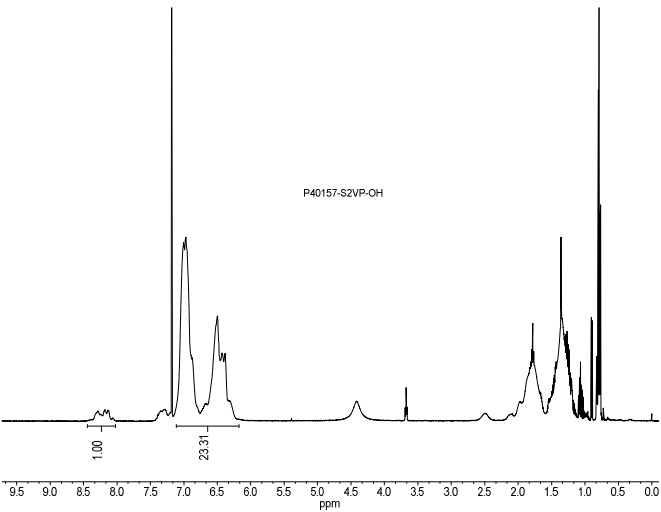
Synthesis Procedure: The polymer was synthesized by anionic process.

The scheme of the reaction is illustrated below:



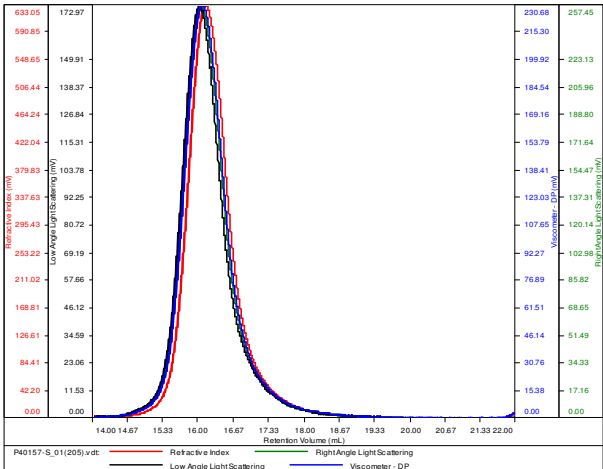
Characterization: The polymer was characterized by ¹H NMR and SEC.

¹H NMR Spectrum of the polymer:



SEC elugram of the polymer:
P40157-S

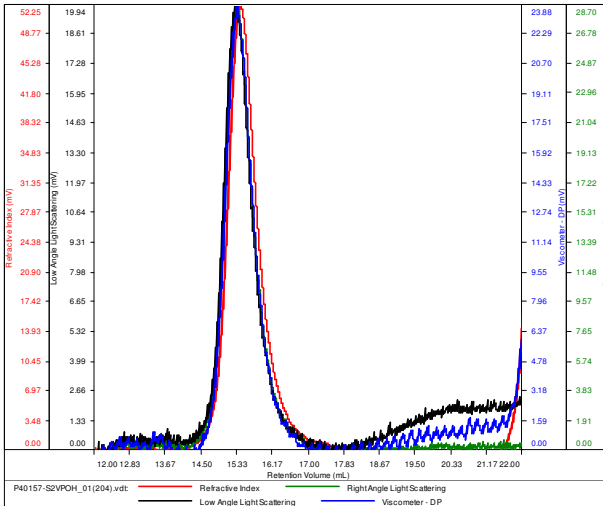
Conc (mg/mL)	9.4411
dn/dc (mL/g)	0.1650
Method	PS80k-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40157-S_01(205).vdt	64,326	66,695	63,756	1.037	0.5264

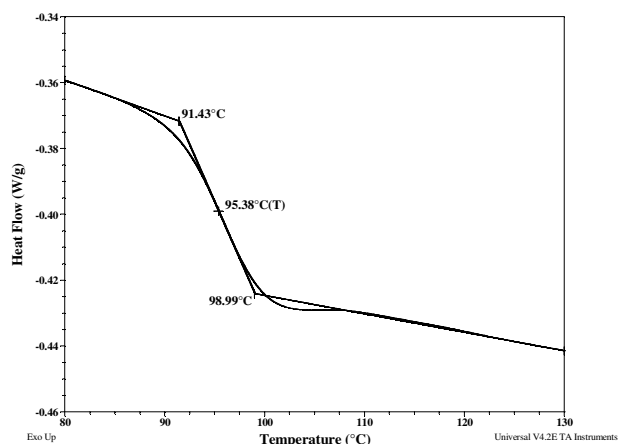
P40157-2

Conc (mg/mL)	0.6973
dn/dc (mL/g)	0.1650
Method	PS80k-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40157-S2VPOH_01(204).vdt	84,272	90,754	85,180	1.077	0.6179

DSC thermogram for the functional polymer:



References:

1. S. K. Varshney, X. F. Zhong and A. Eisenberg *Macromolecules* **1993**, 26, 701-706.
2. Gohy, J.-F., Lohmeijer, B Varshney S,K, Decamps B., Leroy E., Boileau S., Schubert U. S., *Stimuli-responsive aqueous micelles from an ABC metallo-supramolecular triblock copolymer*, *Macromolecules* 2002, 35, 9748-9755.
3. Gohy, J.-F., Mores S., Varshney S. K., Jerome, R., *Self-organization of water-soluble complexes of a poly(2-vinylpyridinium)-block-poly(ethylene oxide) diblock and a fluorinated anionic surfactant*, *Macromolecules* 2003, 36, 2579-2581.