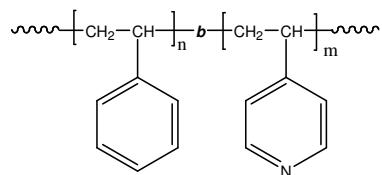


Sample Name: Poly(styrene-b-4-vinyl pyridine)

Sample #: P19988-S4VP

Structure:



Composition:

Mn x 10 ³ PS-b-4VP	PDI
642.0-b-9.0	1.05

T _g for PS block: 103°C	T _g for 4VP block:
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Synthesis Procedure:

The polymer was synthesized by anionic process.

Characterization:

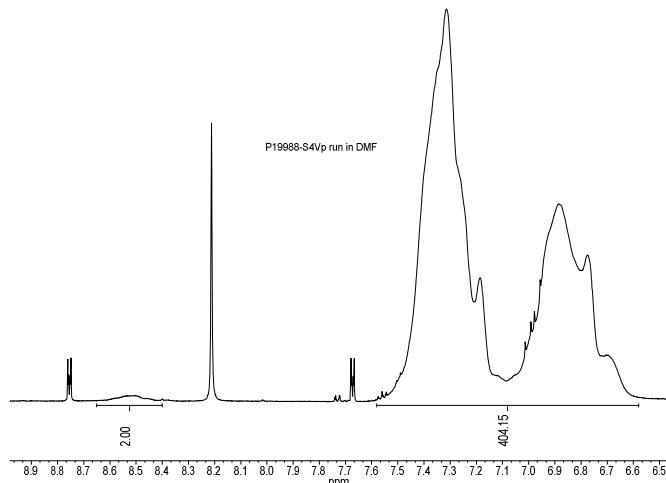
The polymer was characterized by ¹H NMR and SEC.

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 15°C/min. The inflection glass transition temperature (T_g) of the sample has been considered.

Solubility:

Poly(styrene-b-4-vinyl pyridine) is soluble in DMF, CHCl₃. The polymer can also be solubilized in THF depending on its chemical composition. The polymer readily precipitates from hexanes and diethyl ether.

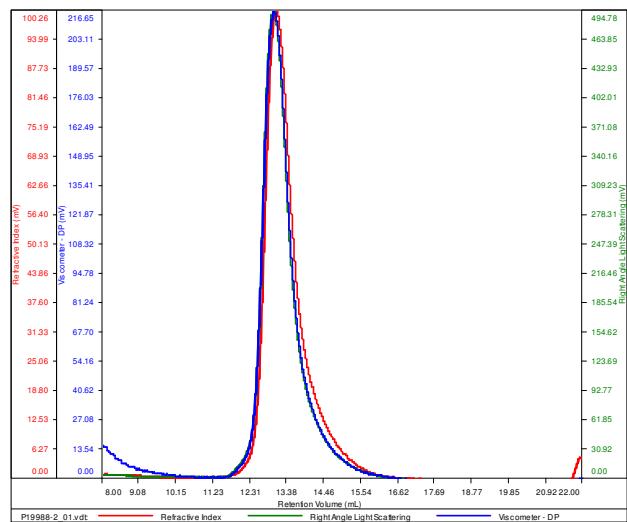
¹H NMR spectrum of the polymer:



SEC elugram of the polymer:

P19988-2

Conc (mg/mL)	2.5270
d _r /d _c (mL/g)	0.1600
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	M _p	Mw/Mn	IV
P19988-2_01.vdt	651.202	683.406	707.901	1.049	0.9591

References:

- (1). S. K. Varshney, X. F. Zhong and A. Eisenberg *Macromolecules*, **1993**, 26, 701-706.
- (2). Z.Gao, S. K. Varshney, S. Wong, A. Eisenberg *Macromolecules*, **1994**, 27, 7923-7927.