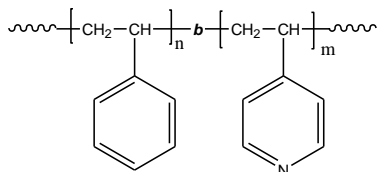


Sample Name: Poly (styrene-*b*-4-vinyl pyridine)

Sample #: P43136-S4VP

Structure:



Composition:

Mn x 10 ³ PS- <i>b</i> -4VP	PDI
13.0- <i>b</i> -0.8	1.04

Synthesis Procedure:

The polymer was synthesized by anionic polymerization process.

Characterization:

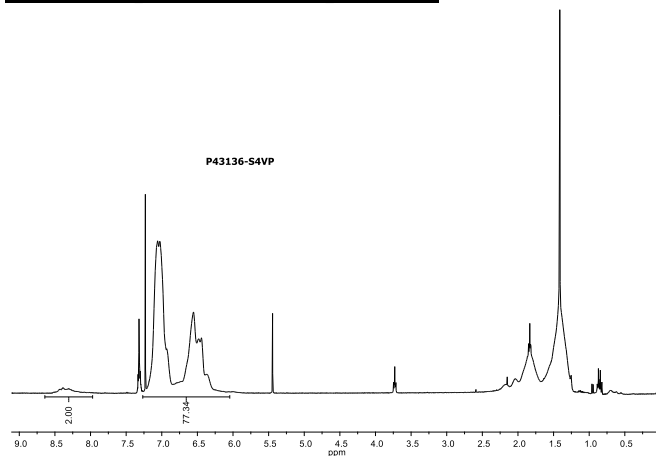
The polymer was characterized by SEC and ¹H NMR. The composition of the block copolymer can also be determined by titration in acetic acid/HClO₄ using crystal violet indicator. Copolymer PDI is determined by SEC.

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.

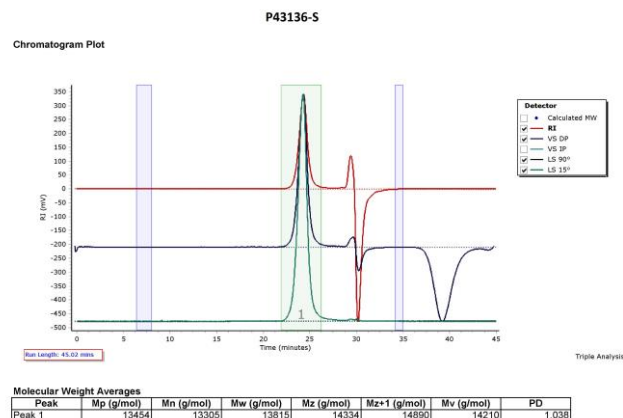
Solubility:

Poly (styrene-*b*-4-vinyl pyridine) is soluble in CHCl₃ and DMF.

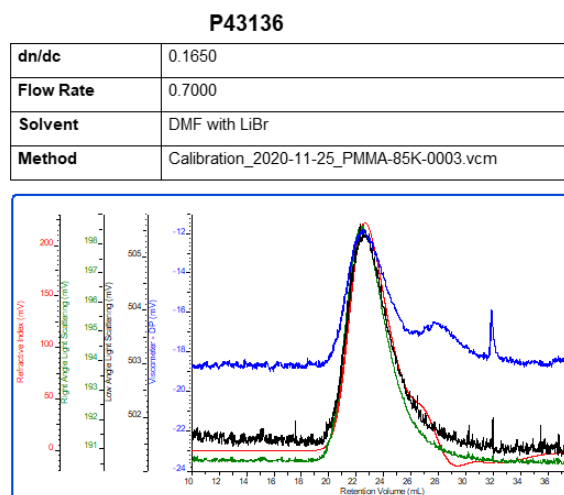
¹H NMR spectrum of the polymer:



SEC elugram of the PS block:



SEC elugram of the Sample:



References:

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